DMDC Report No. 2000-005
December 2000

1999 Survey of Active Duty Personnel:

Administration, Datasets, and Codebook

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1999 SURVEY OF ACTIVE DUTY PERSONNEL: ADMINISTRATION, DATASETS, AND CODEBOOK

Laverne C. Wright, Kristin Williams
Defense Manpower Data Center

Elizabeth J. Willis
Consortium of Universities of the Washington Metropolitan Area
(The University of Maryland)

with survey operations support from
Data Recognition Corporation

Defense Manpower Data Center
Survey & Program Evaluation Division
1600 Wilson Boulevard, Suite 400, Arlington, VA 22209-2593

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1999 SURVEY OF ACTIVE DUTY PERSONNEL: ADMINISTRATION, DATASETS, AND CODEBOOK

Executive Summary

At the request of the Office of the Deputy Assistant Secretary of Defense for Personnel Support, Families, and Education, the Defense Manpower Data Center (DMDC) conducted the survey to assess perceptions of military life issues. After an extensive survey development process in which focus group research played a significant role, the *1999 Survey of Active Duty Personnel* (Form A) was administered from August 1999 through December 1999. It was fielded to a nonproportional stratified, single stage random sample of 66,040 DoD Service members DoD and the Coast Guard. The (weighted) response rate was 51%, which is typical for large-scale surveys of DoD military personnel. This codebook documents survey development, sample design and allocation, survey administration procedures, and datasets that resulted from the survey.

The survey's items can be grouped broadly into several categories: assignment information; career information; military life; programs and services; family information; economic issues; and background information.

Data were collected by mail with procedures designed to maximize response rates. Beginning in late August 1999, an introductory letter explaining the survey and soliciting cooperation was sent to members. The introductory letter was followed about 3 weeks later by a package containing the questionnaire and instructions for completing and returning the survey. A third letter was sent to thank individuals who had already returned the questionnaire and to ask those who had not completed and returned the survey to do so. At approximately 3 weeks, 6 weeks, and 9 weeks after the initial survey mailing, second, third, and fourth questionnaires with letters stressing the importance of the survey were mailed to individuals who had not responded to previous mailings. The field closed on 4 January 2000 with all surveys received by that date.

The population of interest for the ADS Form A consisted of all active-duty Army, Navy, Marine Corps, Air Force, and Coast Guard members (including Reservists on active duty) below the rank of admiral or general, with at least 6 months of service at the time at the time of survey mailings. The sample frame included only members who were on active duty in May 1999.

Nonproportional stratified, single stage random sampling procedures were employed to ensure adequate sample sizes for subgroups (domains) of particular interest. The sampling design considered requirements for analyses by Service, marital status, paygrade, occupation, gender, and location.

The sample for the ADS Form A consisted of 66,040 individuals, of whom 63,250 were ultimately determined to be eligible members of the target population, with eligibility conditional on also being on active duty in September 1999. When the survey fielding closed in December 1999, 33,189 usable surveys had been received from 36,100 Service members. The overall weighted response rate was 51%. Details of determining response rates and calculating non-response adjustments were reported by Flores-Cervantes and Valliant (2000).

Data were weighted to reflect the population of interest. The weights reflected (a) the probability of selection for that member, (b) a nonresponse adjustment to minimize bias arising from differential response rates among demographic subgroups, and (c) a poststratification factor for September 1999—the month in which questionnaires were first distributed.

The preparation of analysis files balanced two needs: public access to data with sufficient information for accurate estimates versus participants' and nonparticipants' rights to privacy and anonymity.

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1999 SURVEY OF ACTIVE DUTY PERSONNEL: ADMINISTRATION, DATASETS, AND CODEBOOK

Introduction

The 1999 Active Duty Surveys (ADS) continues a line of research begun in 1969 with a series of small-scale surveys administered approximately every two years. These surveys were expanded in 1978 to provide policymakers with information about the total population directly involved with active duty military life (Doering, Grissmer, Hawes, & Hutzler 1981). The Department of Defense (DoD) also conducted large-scale active-duty surveys in 1985 (Hunt et al., 1986) and 1992 (Westat, 1993, 1994a, 1994b). The 1999 ADS are a set of mail surveys sponsored by the Office of the Assistant Secretary of Defense for Force Management Policy (OASD[FMP]) with particular interest in analysis by the Offices of the Deputy Assistant Secretaries of Defense for Military Community and Family Policy (ODASD[MCFP]) and for Military Personnel Policy (ODASD[MPP]).

There are two 1999 ADS instruments: the 1999 Survey of Active Duty Personnel (Form A), and the 1999 Survey of Spouses of Active Duty Personnel (Form B). This codebook documents survey development, sample construction and allocation, survey administration procedures, and datasets that resulted from the Form A survey of members. The Form B survey of spouses will be documented in a later volume (Wright, Williams, & Willis, 2000).

In formulating policy, the DoD relies on both administrative data and survey data. The administrative data contain personnel-related information collected from individuals, or maintained about them. These data are largely automated and readily available for policy research and formulation purposes (e.g., to determine amounts of military compensation, eligibility for various forms of health and program benefits, and performance assessments) (LaVange et al., 1986b).

Survey data can be used to supplement administrative data, as well as to address issues that cannot be studied from the administrative data. Especially when collected periodically, these data can serve as a basis for assessing the response of military personnel to policy changes and for identifying areas for future policy action.

DMDC has performed military personnel surveys of active-duty personnel approximately every seven years since 1978. In 1985, it began fielding a spouse questionnaire in addition to the member form. These earlier surveys allow policy makers to view trends in high-interest areas. Information from previous surveys illustrate the wide variety of uses found for active-duty survey data. For example, previous surveys have been used to study: the effects of Operation Desert Shield/Desert Storm on the family, how attitudes on the military way of life change over time, the effect of separation and deployment on the family, and how military couples deal with military life. Information from the earlier surveys was used in congressional reports (on topics such as military members qualifying for food stamps) and data have been used extensively by the Quadrennial Reviews of Military Compensation.

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Overview of Report

The next section of this report describes the procedures used to develop the instrument, design the sample, conduct the survey, process the data and prepare analysis weights. Along with Appendices A and B, the methods section is the documentation of how the survey was conducted.

The third section of the report describes the survey analysis file layout and key variables. This section and the remaining appendices (C-J) address issues in the analysis of the survey data. Conventions for variable naming and construction are introduced in this section with details given in Appendices C (annotated questionnaire), D (explanation of coding), and I (explication of key analytic variables). Explanations for the groupings of variables seen in the positional list of variables in Appendix F.[1] are discussed in this section as well as a description of information available in Appendix G for each variable. Appendix G contains details for variables in the same order that the variables are listed in Appendix F. In addition to the variables available on the public-release file, Appendix G contains details for the confidential variables that had to be suppressed to preserve the privacy of survey respondents and nonrespondents. Confidential variables are identified and listed in Appendices E and F. Key concepts required for the analysis of complex survey data and the structure of records in the survey analysis files are introduced in this section. Examples of analyses are given in Appendix J. The SAS code used to construct the analytic variables are included in Appendix I. Appendix H provides the record layout for the public-release flat file.

[1] An alphabetical list is at Appendix E.

Method

Survey Instrument

A copy of the 20-page *ADS Form A* questionnaire is provided in Appendix A. The survey instrument can be grouped into seven sections:

- *Assignment Information* – includes questions on hours worked, permanent duty station (PDS), satisfaction with characteristics of the PDS, permanent change of station moves, and time away from the PDS for military duties;

- *Career Information* – includes questions on career intent, reasons for joining, obligation and retention, satisfaction with occupational specialty, and satisfaction with aspects of military service;

- *Military Life* – includes questions on importance of military activities, thoughts of leaving the military, civilian vs. military opportunities, and overall satisfaction;

- *Programs and Services* – includes questions on the availability and use of on-base and off-base services, facilities, and programs;

- *Family Information* – includes questions on marital status, spouse occupation and education, dependents, childcare arrangements, and military health care;

- *Economic Issues* – includes questions on non-military income, total monthly income and expenses, savings and debt, service and retirement benefits; and

- *Background* – includes information on gender, race/ethnic status, education, duty status, Service, paygrade, and time served.

Survey items were adopted, adapted, or generated from one or more of the following sources:

- the 1985 and 1992 Surveys of Officer and Enlisted Personnel and Spouses;
- concerns identified by personnel from OASD(FMP), particularly ODASD(MCFP) and ODASD(MPP);
- the Survey of Consumer Finances (2000) for financial items;
- U.S. General Accounting Office; and
- focus groups conducted with military personnel similar to those in the sample.

Because focus group research played such a significant role in the development of the survey instrument, it warrants in-depth discussion. The large number of new and modified items in the ADS Form A required developing and pretesting iterative versions of the questionnaire. Focus groups were conducted with Army, Navy, and Marine Corps, and Air Force members and spouses. Approximately 120 service members participated in 14 focus groups that were conducted at eight installations located throughout the United States. To ensure the applicability of the items for the population of inferential interest, versions of the survey were pretested on

officer and enlisted members from all four Services. The layout of the surveys used in the pretests closely approximated that found in the final instrument.

In the 1- to 2-hour focus group sessions, participants were asked to imagine that they had received the survey in the mail and to complete it accordingly. Also, participants were instructed to write notes on the survey where they had concerns about items, alternatives, or instructions so that these issues could be discussed after the survey was completed. Survey completion typically took from 35 to 50 minutes. After everyone had completed the survey, the focus group facilitator reviewed the instrument section-by-section, asking for specific comments on each section. For certain portions of the survey, facilitators probed to see if all respondents were interpreting the instructions, items, and contexts similarly. After the section-by-section review was completed, focus group participants were asked to give general comments about the survey (e.g., survey length and whether respondents would feel free to answer the questions honestly). At the end of the session, facilitators gathered questionnaires to preserve the notes that participants had written.

DMDC and GAO researchers moderated and observed the focus groups and met after the groups to identify problems and make recommendations for revisions. Revisions were incorporated into later version of the survey. In subsequent focus groups, facilitators probed to determine whether the revisions had corrected the problems or whether additional modifications were warranted.

The final version of survey instrument was printed by National Computer Systems (NCS) on a machine-readable optical-scan form. The survey instrument has a unique lithographed (litho) code number printed on each sheet.

Sample

Overview

The population of inferential interest for the ADS Form A consisted of all active-duty Army, Navy, Marine Corps, Air Force, and Coast Guard members (including Reservists on active duty) below the rank of admiral or general, who had served at least 6 months of service at the time of survey mailings. Flag and general officers were excluded because they are such a small group that their confidentiality could not be assured. The sample frame included only those members who were on active duty in May 1999, with eligibility conditional on also being on active duty in September 1999.

The initial sample for the ADS Form A consisted of a non-proportional stratified, single stage random sample of 66,040 individuals, of whom 63,250 were determined to be eligible members of the target population. The sample design considered requirements for analyses by Service, service component, gender, racial/ethnic group membership, paygrade groups, pilots, joint marital and single parent designators, on-base or off-base residences, and location. Details of the sample design and expected precision levels are reported by George, Wright, and Elig (2000) and are summarized below.

Stratification Variables

The sampling frame was constructed using the five stratification variables listed in Table 1. Cell sizes were too sparse in some cases for the fully crossed stratification. For this reason, sex and location were collapsed within some strata for Army, Navy, Marine Corps, and Coast Guard. Some junior officer groups were also collapsed within Navy, Air Force, and Coast Guard.

Constructing the Frame and Drawing the Sample

DMDC's May 1999 Active Duty Master File (ADMF) provided information for developing the sampling frame, constructing strata, and determining the sample size and allocation. The previously specified definition of the population resulted in a sampling frame with 1,419,269 eligible members. A non-proportional stratified, single stage random sample of 66,040 members was selected to receive the ADS Form A. Table 2 presents a summary of the sample allocation by Service.

Table 1.
Stratification Variables

Dimension of Stratification	Levels
Joint Marital Status	Married to civilian or other non-joint service member Active joint service member (member married to active duty member or AGR member) Unmarried
Service	Army Navy Marine Corps Air Force Coast Guard
Gender	Male Female
Paygrade Group	E1 to E3 E4 E5 to E6 E7 to E9 WO1 to WO5 O1 to O3 O4 to O6
Location	CONUS OCONUS

Researchers identified subgroup breakouts (i.e., domains) that would be important when survey results were provided to policy officials. These reporting domains were defined by using the 12 demographic variables shown in Table 3. For four demographic characteristics, multiple versions of variables were created that differed in the level of detail. Less detailed variables were used to define domains for analyses within the five Services than were used to define domains at the DoD level.

Next, researchers determined the number of people who would be sampled for each stratum using a sample-planning tool developed for DMDC (Kavee & Mason, 1997). A formal mathematical procedure (Chromy, 1987) based on Karush-Kuhn-Tucker theory is used in the sample-planning tool to determine an optimized sample size and allocation—a sample that would achieve at minimal cost the precision levels required for each analytic domain. The Kuhn-Tucker theory provides an optimal solution to satisfy precision constraints (e.g., $\pm$ 5 percentage points) imposed on estimates of prevalence rates in key reporting domains. Researchers iteratively modified the inputs to the sample-planning tool to arrive at acceptable precision levels for reporting domains that would be of particular interest to policy officials.

Table 2.
1999 Active Duty Sample Allocation

	Total	Army	Navy	Marine Corps	Air Force	Coast Guard
Joint Marital Status						
Married	30,979	11,687	6,058	4,996	6,603	1,635
Joint Couple	4,539	1,591	421	749	1,453	325
Unmarried	27,007	9,408	6,715	4,572	4,988	1,324
Gender						
Male	51,786	18,733	11,318	8,825	10,458	2,452
Female	10,792	4,003	1,876	1,493	2,588	832
Paygrade Group						
E1 – E3	9,857	2,576	2,640	2,610	1,356	675
E4	9,195	3,819	1,713	1,598	1,494	571
E5 – E6	13,185	4,531	3,414	1,550	2,855	835
E7 – E9	5,135	2,165	777	817	1,172	204
WO1 - WO5	3,852	1,528	783	1,092	0	449
O1 - O3	13,525	5,001	2,550	1,863	3,744	367
O4 - O6	7,827	3,115	1,316	788	2,425	183
Location						
CONUS	44,765	15,360	9,630	7,726	9,284	2,765
OCONUS	17,447	7,257	3,394	2,590	3,690	516

Note: Counts for unknown are not included.

Table 3.
Factors Defining Key Reporting Domains

Factors	Levels
Paygrade Group 2	Enlisted (E1-E9)
	Warrant Officers (W1-W5)
	Commissioned Officers (O1-O6)
Paygrade Group 3	E1-E3
	E4-E5
	E6-E9
	W1-W5
	O1-O3
	O4-O6
Location Group 2	US
	US territories
	Overseas, afloat at sea, or other locations not listed
Regions	US & US territories
	Europe
	Asia & Pacific Islands
	Other
Enlisted Occupation Areas	Infantry, Gun Crews, and Seamanship Specialists
	Electronic Equipment Repairers
	Communications and Intelligence Specialists
	Health Care Specialists
	Other Technical and Allied Specialists
	Functional Support and Administration
	Electrical/Mechanical Equipment Repairers
	Crafts Workers
	Service and Supply Handlers
	Non-Occupational
Officer Occupation Areas	General Officers and Executives, N.E.C.
	Tactical Operations Officers
	Intelligence Officers
	Engineering and Maintenance Officers
	Scientists and Professionals
	Health Care Officers
	Administrators
	Supply, Procurement and Allied Officers
	Non-Occupational
Pilot/Navigator (rated)	Pilot/Navigator(rated)
	Other
Race/Ethnic Category 1	(Non-Hispanic) White
	(Non-Hispanic) Black
	Hispanic
	Native American & Alaskan Native
	Asian & Pacific Islander
	Other

Factors	Levels
Race/Ethnic Category 2	Non-Hispanic White (non-minority) Other (minority)
Living on or off base (BAQ variable)	Living on-base (not receiving BAQ) with dependents Living on-base (not receiving BAQ) without dependents Living off-base (receiving BAQ) with dependents Living off-base (receiving BAQ) without dependents
Component	Active Duty AGR (National Guard/Reserve)
Single parent	Single and has a child or children Other

Respondents

Overview

When the survey fielding closed in 4 January 2000, DMDC had received 33,189 usable surveys. Another 2,911 individuals were determined to be ineligible because they were ineligible in DEERS after the sample frame was constructed, or the member reported they were not on active duty in Question 107, or the member told the survey processing center they were permanently ill, not in the military, or ineligible for some other reasons. After making adjustments in accordance with industry standards (Council of American Survey Research Organizations, 1982) for eligibility and differential sampling rates across the various subgroups, the observed response rate was 56.2% and the weighted response rate was 50.7%.

Individuals for whom response status and eligibility were determined were weighted to ensure that the answers from respondents represented the population of interest. The weights reflected (a) the probability of selection for that member, (b) a nonresponse adjustment to minimize bias arising from differential response rates among demographic subgroups, and (c) a poststratification factor for September 1999—the month in which the survey form was first distributed. Summing across all 36,100 individuals for whom response status and eligibility were determined, the final weights summed to 1,403,423—the number of service members on active duty (including Reservists) below an O-7 in September 1999. Summing the final weights across the 33,189 eligible respondents gives a weighted estimate that 1,303,750 of these members had been on active duty at least six months and were thus eligible for the survey. Details of determining response rates and calculating non-response adjustments were reported by Flores-Cervantes, and Valliant (2000) and are summarized below.

Table 4 shows the demographic characteristics[2] of the 33,189 respondents, while Table 5 shows the population estimated by these respondents.

[2] The demographic characteristics in these tables are primarily based on self-reports; and to varying extents, they differ from similar variables on the administrative files.

Table 4.
Respondents

	Total	Army	Navy	Marine Corps	Air Force	Coast Guard
Paygrade						
E1-E3	2,082	457	410	543	520	152
E4	3,042	1,181	598	448	583	232
E5-E6	7,094	2,310	1,944	622	1,766	452
E7-E9	3,804	1,624	626	493	921	140
WO1-WO5	2,756	1,185	534	722	3	312
O1-O3	8,031	2,887	1,524	1,042	2,336	242
O4-O6	6,379	2,622	1,150	603	1,867	137
Unknown	1				1	
Marital Status						
Married	22,551	8,612	4,405	2,985	5,416	1,133
Not married	10,638	3,654	2,381	1,488	2,581	534
Gender						
Male	27,321	9,954	5,823	3,899	6,378	1,267
Female	5,868	2,312	963	574	1,619	400
Region						
CONUS	27,270	9,613	5,789	3,889	6,368	1,611
OCONUS	5,849	2,620	980	579	1,615	55
Unknown	70	33	17	5	14	1

Determining Response Status

Table 6 shows the number of sample members selected for the survey, the numbers determined to be ineligible by administrative record data and by self-report, the number not located, and the number of non-respondents. The first row of Table 6 shows that a worldwide sample of 66,040 was selected from a population of 1,419,269 active duty members from the four Services and Coast Guard. This population total is the actual frame count as of September 1999 and the base weights of the sample sum to this amount. With the exception of the frame-based population total of 1,419,269, numbers in the population counts are estimated from the sample. The percentages shown for the population are the weighted estimates of the counts that would have occurred if the entire population had been selected for the sample—they differ from the percentages shown for the sample because the sample was not drawn in proportion to the population.

Table 5.
Weighted Estimates of the Eligible Population

	Total	Army	Navy	Marine Corps	Air Force	Coast Guard
Paygrade						
E1-E3	240,766	68,384	55,090	53,793	59,240	4,259
E4	280,557	113,363	70,515	30,599	59,536	6,545
E5-E6	414,540	133,515	125,072	36,569	108,504	10,881
E7-E9	152,589	61,227	36,415	13,046	38,706	3,195
WO1-WO5	17,086	12,411	1,496	1,779	122	1,279
O1-O3	112,658	35,974	28,366	9,389	35,848	3,081
O4-O6	85,472	28,392	20,162	5,584	29,385	1,948
Unknown	80				80	
Marital Status						
Married	812,662	294,678	203,324	75,336	219,636	19,688
Not married	491,088	158,587	133,793	75,423	111,785	11,501
Gender						
Male	1,114,675	384,877	292,077	141,391	268,398	27,932
Female	189,075	68,388	45,039	9,368	63,023	3,257
Region						
CONUS	1,088,238	358,876	294,295	131,334	273,763	29,969
OCONUS	211,562	92,702	41,762	19,116	56,783	1,199
Unknown	3,951	1,687	1,059	308	875	21

Losses from the sample are displayed hierarchically in Table 6. A total of 5,186 (7.85%) of the members was lost from the sample because of ineligibility. Members were lost from the sample for three main reasons: (1) ineligibility in DEERS; (2) promoted above an O-6; and (3) self-reported or other ineligibility for the survey. Over 50% of the ineligibles (2,790) occurred when eligibility status and mailing addresses were updated using the end of September 1999 Defense Enrollment Eligibility Reporting System (DEERS) file.[3] Of the DEERS ineligibility losses, most occurred because the member was not shown as being on active duty. Approximately 46% (2,380) of the ineligibles occurred when people either sent a letter or fax to Data Recognition Corporation (DRC), the operations contractor, to indicate they were ineligible or returned a completed survey indicating they were not serving on active duty and/or in the Guard Reserve (Question 107). Elimination of 5,186 known ineligibles resulted in decreasing the eligible sample to 92.15% (N=60,854) of the drawn sample size.

[3] The database for the sample was constructed using information from the May 1999 ADMF and RCCPDS. Information in the database included social security numbers, names, addresses, eligibility status, stratification variables, etc. The names and social security numbers were then matched against the data in a more current database, DEERS, and used to verify the eligibility and addresses of the sampled members at the time of the first survey mailing, September 1999.

Table 6.
Frequency Counts and Percents of the Final Usable Sample Relative to the Drawn Sample

	Sample counts		Weighted estimates of population	
	n	**%**	**n**	**%**
Drawn sample & population	**66,040**	**100.00%**	**[a]1,419,269**	**100.00%**
Ineligible in DEERS (master files)	2,790	4.22%	68,355	4.82%
Promoted above an O-6	16	0.02%	165	0.01%
Self-reported ineligible	2,380	3.60%	44,881	3.16%
Total: Ineligible	**5,186**	**7.85%**	**113,401**	**7.99%**
Eligible sample	60,854	92.15%	1,305,868	92.01%
Total: Not located	1,099	1.66%	26,889	1.89%
Located sample	59,755	90.48%	1,278,979	90.12%
Nonresponse				
Returned blank	62	0.09%	1,087	0.08%
Skipped key questions	55	0.08%	3,935	0.28%
Skipped Question 107	175	0.26%	1,165	0.08%
Did not return a survey	25,900	39.22%	624,409	44.00%
Total: Nonresponse (unknown eligibility only)	**26,192**	**39.66%**	**630,595**	**44.43%**
Skipped key questions (eligible respondents)	374	0.57%	7,621	0.54%
Total nonresponse (unknown and eligible nonrespondents)	26,566	40.23%	638,216	44.97%
Usable Responses	**33,189**	**50.26%**	**640,763**	**45.15%**

Notes. Percentages reported for usable responses represent the yield of usable responses from the survey procedures, but not response rates as typically reported for surveys.
[a] This is both the population frame count and the sum of base weights from the sample.

Approximately 1.7% (n=1,099 of 66,040) of the drawn sample was lost because the sample members could not be located. Personnel records for this 1.7% of the sample had either an incomplete or out-of-date address, and other steps designed to obtain addresses were not successful. Sending surveys to military members and their family is complicated because they are very mobile. Relative to their civilian counterparts, military families move much more frequently, often to or from foreign locations. This fact, coupled with the size of the military population (approximately 1.5 million active-duty members) makes it difficult to maintain up-to-date addresses. As a result, DMDC incorporated an address-update procedure developed by DMDC and DRC to minimize the number of people who would be lost from the survey because of outdated addresses. (This procedure is explained in a later section that describes the survey control system.)

Sixty-two individuals returned surveys that were entirely blank. Another 55 individuals returned surveys but left key items blank. These surveys were treated as nonrespondents when at least one item in each of the Questions 39, 50, and 52 were not answered. A third group of 175 individuals returned surveys but did not complete Question 107 and was considered nonrespondents.

All sampled members who (a) were not assigned to an earlier loss category and (b) did not return usable surveys were placed in the category, "Did not return a survey." This nonresponse group (n=25,900) was composed of those individuals who had been sent at least one survey without it being returned to DRC and for whom no information (on ineligibility or a completed survey) had been obtained.

At the conclusion of the survey fielding, 33,189 eligible personnel had returned usable questionnaires.

Location, Completion and Response Rates

Varying operational definitions of response rates can lead to problems when interpreting the results of a survey. To lessen this problem, the Council of American Survey Research Organizations (CASRO, 1982) recommended guidelines for standardizing the operational definitions of response rates. Beginning in 1995, DMDC standardized its methods for calculating response rates and completion rates, using procedures patterned after those advocated by CASRO. More specifically, the DMDC procedures most closely follow CASRO's Sample Type II design.

As discussed by CASRO, the overall response rate has two components: the rate at which individuals can be located (location rate) and the rate at which located individuals complete the survey (completion rate). CASRO recommended that nonrespondents for whom eligibility has not been determined be distributed to eligibility and ineligibility status using the eligibility rate among those for whom a determination could be made. In the ADS Form A, an assumption has been made that all master file ineligibles were identified and therefore are excluded from the ineligibility rate used to estimate unidentified ineligibles. Based on the proportion of self-reported ineligibles (2,380) found among responding sample members, 6.6 % of the 1,099 nonlocatables, or 73 nonlocatables, were estimated to be ineligible and 6.6% of 25,900, or 1,715 of sample members with no survey return were likewise estimated to be ineligible. In addition 6.6% of 62, or 4 sample members who returned blank surveys were estimated to be ineligible and 6.6% of 230 or 15 sample members who skipped key questions or skipped question 107 were estimated to be ineligible. CASRO-adjusted located and adjusted eligible sample counts are shown in Table 7, and the CASRO-compliant location, completion, and response rates are defined as shown in Table 8.

Unweighted (observed) rates are useful for some purpose; however, to gauge the rate of participation among the target population more accurately, weighted response rates are needed. Weighted rates also have the advantage of being comparable among surveys that use different sampling methods. Because weighted rates adjust for each sample member's probability of selection, they yield rates that apply to a simple random sample. The biasing effects of other sampling strategies (e.g., oversampling and cluster sampling) are eliminated when weighted rates

are used. For these reasons, weighted response rates are typically preferable to unweighted response rates. The weighted rates are presented in Table 8.

Table 7.
CASRO-adjusted Located and Eligible Sample Counts

	Sample counts		Weighted estimates of population	
	n	**%**	**n**	**%**
Located Sample	59,755	90.48%	1,278,979	90.12%
Estimated ineligible of those who returned a blank survey	4	0.01%	70	0.00%
Estimated ineligible of those who skipped key questions	15	0.02%	330	0.02%
Estimated ineligible of those who did not return a survey	1,715	2.60%	40,423	2.85%
Total estimated ineligible	1,734	2.63%	40,824	2.88%
Adjusted located sample	**58,021**	**87.86%**	**1,238,155**	**87.24%**
Eligible sample	60,854	92.15%	1,305,868	92.01%
Estimated ineligible of those not located	73	0.11%	1,741	0.12%
Estimated ineligible of those who returned a blank survey	4	0.01%	70	0.00%
Estimated ineligible of those who skipped key questions	15	0.02%	330	0.02%
Estimated ineligible of those who did not return a survey	1,715	2.60%	40,423	2.85%
Total estimated ineligible	1,807	2.74%	42,564	3.00%
Adjusted eligible sample	**59,047**	**89.41%**	**1,263,304**	**89.01%**

Note. The adjustments follow the CASRO approach of projecting the observed ineligibility rate onto sample members who are not located or are non-respondents.

Table 8.
Location Rates, Response Rates, and Completion Rates

Type of Rate	Computation	Observed Rates	Weighted Rates
Location	Adjusted located sample / Adjusted eligible sample	98.26%	98.01%
Completion	Usable responses / Adjusted located sample	57.20%	51.75%
Response	Usable responses / Adjusted eligible sample	56.21%	50.72%

Note: The rates in this table are computed from the information in Tables 6 and 7**.**

Survey Materials and Their Distribution

Data were collected by mail with procedures designed to maximize response rates. A total of 332,913 pieces of mail were sent in 6 separate mailings to sample members. All eligible sample members could have received up to six different mailings: a notification letter, a wave 1 letter and survey, a reminder/thank-you letter, a wave 2 letter and survey, a wave 3 letter and survey, and a wave 4 letter and survey. The 4.5" x 9.5" window envelopes for the notification and reminder/thank-you mailings contained only a letter. Within the 9" x 12" window envelopes for the other four mailings included a cover letter, a survey, and a folded pre-addressed business-reply envelope.

This section describes the letters that were sent to the respondents and the procedures used to distribute the mailings. The procedures included developing a relational database to monitor all data transactions, establishing a process for updating addresses, and conducting multiple mailings for each of the six possible times that a respondent could be contacted.

Letters

DMDC provided the operations contractor with the text, letterhead and signatures for the cover letters. These letters explained why the survey was being conducted, how the survey information would be used, and why participation was important. (See Appendix B for copies of the letters.) The letters were approved, printed on letterhead from the Under Secretary of Defense and signed by Under Secretary Rudy de Leon.

The letterhead and signature were printed in blue, and the text and recipient information of all letters were printed in black. In addition to including a name and address (which was also used as the mailing information for the window envelopes), each letter included a personalized salutation. The salutation addressed each sample member by his/her rank. For example, a letter to a Navy E5 with the last name Smith would have included the salutation, “Dear Petty Officer Smith”. Similarly, an Army O3 named Jones would have received a letter starting, “Dear Captain Jones”. The address block also included Service branch; for example, “Petty Officer John Smith USN” or “Captain Mary Jones USA”.

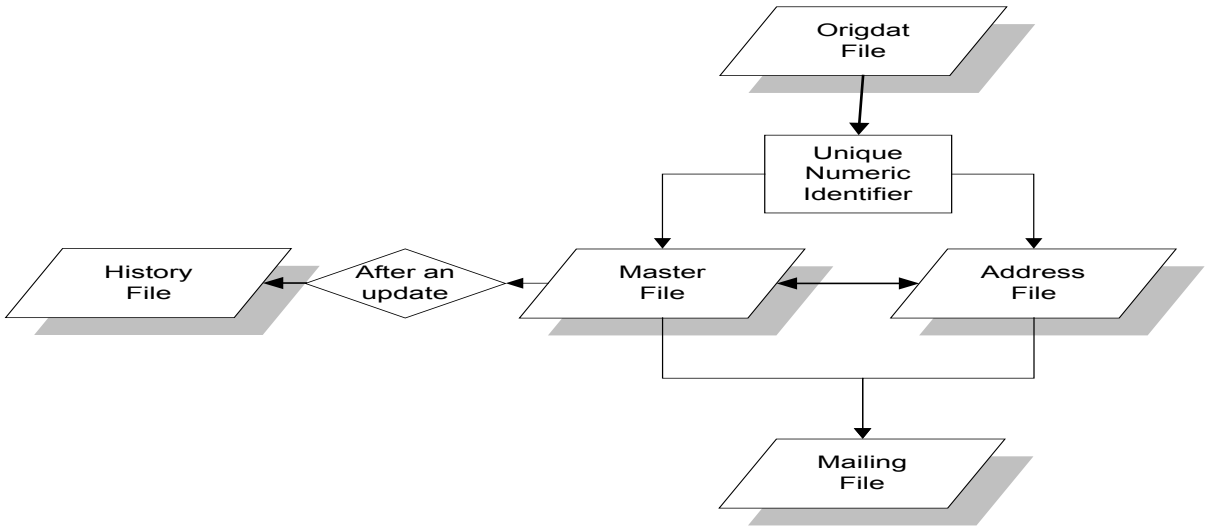
Letters were printed with the record’s unique Mail Information Code (MIC) listed in the address field and on the lower right corner of the letter. If only letters were being sent (no survey forms), the letters were then folded and machine inserted into window envelopes and sent by first class mail. Mailings that included a survey followed the same procedure through the letter printing process. The MIC on the cover letter was used to pair the letter with its matching lithocoded survey. During the matching process, ten percent of the mailing was visually checked, comparing the MIC printed on the letter with the survey’s lithocode to ensure quality. Any mismatched pairs initiated further investigation of the matching process. This procedure ensured that each survey was sent to the person designated to receive it. Depending on the sample size, the letters and matched surveys were machine or hand inserted into envelopes, metered if necessary, and sent by first class mail.

Survey Control System

The Survey Control System (SCS)[4] was used to monitor the data collection process and to track all data transactions over the course of the survey administration. The datasets in the SCS include sample members' names and addresses, but do not contain data obtained from the survey instruments. Because of privacy concerns, SCS datasets are not available for public release.

The operations contractor uses the SCS to store and update project data, monitor mailings, respond to documents returned as postal non-deliverables (PNDs), and determine survey participation and eligibility status. The SCS consists of five datasets: the ORIGDAT file, the ADDRESS file, the MASTER file, the HISTORY file, and the MAILING file. The files are linked relationally by INRECNO, a unique individual identification number that is assigned to each sample member when the record was loaded into the SCS. Figure 1 displays the interrelationships among those datasets.

Figure 1.
Survey Control System



[4] In this document, the term *SCS* refers to the set of data files as well as the program or operating system which maintains those files.

ORIGDAT file. The ORIGDAT file consists of 66,040 records, one record for each member of the sample. It is the original sampling frame file sent to the operations contractor by DMDC. The original file is loaded onto the operations contractor's computer system and converted to a SAS[5] dataset. As the file was converted into a SAS dataset, the SCS generated a unique identification number (INRECNO) for each record. This number identifies the sample member throughout the SCS and also in returns data sets, comment text files and other specify text files. The names and some demographic data from the ORIGDAT file were loaded into the MASTER file in preparation for the first mailing. The addresses from the ORIGDAT file were loaded into the ADDRESS file.

ADDRESS file. The ADDRESS file tracked the multiple addresses that were maintained for each sample member. The ADDRESS file contains one record for each address for each sample member. For example, if there are five addresses located for one sampled individual, that individual has five separate records in the ADDRESS file. ADDRESS records were created as new information was located. Each record included the individual's INRECNO, residential or unit address and source of the address (e.g., supplied in the original file, telephone call, or the postal service), an address priority code, the date the address was loaded into the system, and the address number (the sequential order of receipt of the address for a particular sample member). For example, if a sample member has one address record in the ADDRESS file, the address number for that record is "1." The sequential address number assigned to a given address for an individual did not fluctuate with changes in addresses caused by updating efforts.

Each address in the ADDRESS file was assigned not only a sequential number but also a priority code . The priority code[6] is unrelated to the sequential number and is dependent on the source and date of the address. For example, a priority of "1" was assigned to an address received directly from a sample member through a phone call or fax (it had the highest priority since it came from the source) and a priority of "2" was assigned to a postal service update. At any given time, the address number of the highest priority address for a given INRECNO was recorded in the MASTER file as the current address number to use for mailings. This address was also flagged in the ADDRESS file as the "active" address. Address updates were entered through both automated processes (e.g., recording PNDs or adding credit bureau addresses) and by manual key entry (e.g., new information from a phone call from a sample member). Updates were dynamic and could occur from external sources simultaneously. The SCS also checked addresses as they were added to see if they duplicated an existing address; if the address was a duplicate, it was ignored in searches for new addresses to use in mailings.

MASTER file. The MASTER file is used by the SCS to select records for upcoming survey mailings. This file includes a record for each member of the sample and is created by extracting data from each record in the ORIGDAT file. Each MASTER record includes the sample member INRECNO and the "highest priority code" ADDRNO that currently has been assigned from the corresponding records in the ADDRESS file. The MASTER file accommodates data updates through an automated process (e.g., updating the ADDRNO in use

[5] SAS® is a registered trademark of SAS Institute Inc., Cary, NC, USA.

[6] In general, residential addresses have a higher priority code than unit addresses during all of the mailings. However, in an effort to increase the number of returns, unit addresses where assigned a higher priority code for mailings of waves 2 and 3.

after the receipt of a postal non-deliverable) or manual key entry (e.g., updating information in response to a telephone call from a sample member). As new information is received for a particular record (including changes to the priority codes assigned to addresses), the SCS updates the MASTER record and adds a new record to the HISTORY file containing the outdated information from the MASTER file.

HISTORY file. The HISTORY file is a chronicle of the changes that occurred to the MASTER file. Each HISTORY record is a subset of an outdated MASTER record with the addition of a date and time stamp as the record is updated. That is, a HISTORY record is created when there is a name, address, paygrade, or eligibility status change in the MASTER file. Thus, the HISTORY file contains as many observations as there are updates to the MASTER file.

MAILING file. The MAILING file tracks all of the survey mailings. This file contains one record for each item mailed during the survey administration. Each MAILING record includes the INRECNO, ADDRNO used, date of mailing, mailing status, type of mailing, and the MIC.

Address-update Procedures

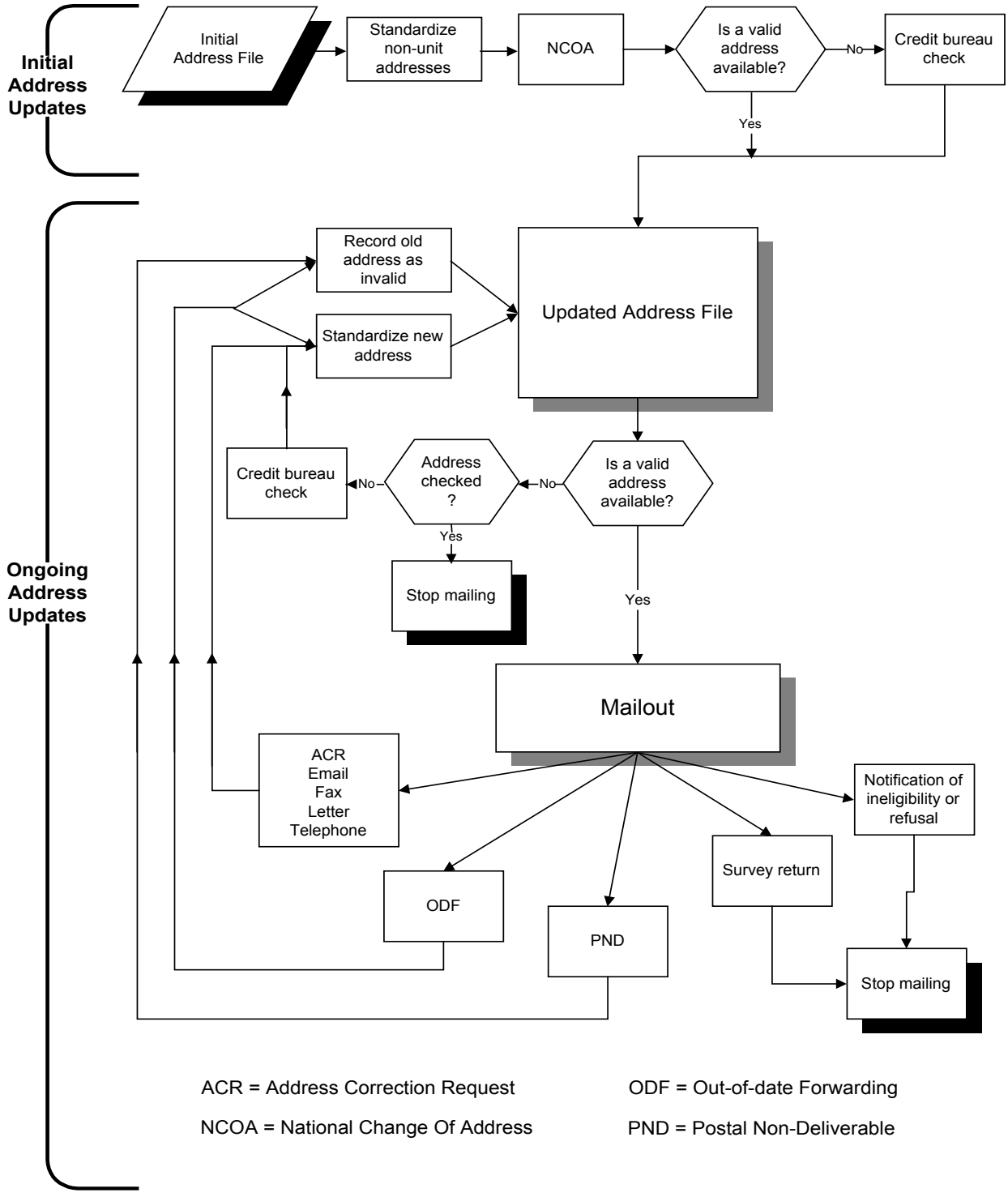
Initial address updates. Prior to the first mailing, DRC ran all domestic residential addresses through Group 1 software to be formatted to conform to U.S. Postal Service standards. Once the addresses were standardized, they were sent to an outside vendor where they were checked against the National Change of Address (NCOA) database. The NCOA software updated the address records (in standardized format) based on change-of-address cards filed with the U.S. Postal Service. The updated NCOA address file was returned to DRC and integrated into the SCS. The NCOA-updated addresses were added to the ADDRESS file and became the current ADDRNO with the "highest priority code assigned" in the MASTER file.

After the NCOA-updated data was added to the SCS, another file was compiled of sample members who had an incomplete address or an address identified by NCOA as an undocumented move (i.e., the sample member had moved, but NCOA did not have a new address). The operations contractor sent copies of this file to three credit bureaus (Experion, Trans Union and CSC Credit Services)[7] to determine whether a complete, up-to-date address for these sample members could be found. The results were integrated into the SCS, updating records in the ADDRESS file.

Ongoing address updates. Address update procedures also occurred when (a) additional address records were received after NCOA processing, (b) a survey document was returned as undeliverable, (c) a sample member self-reported a name, rank, or address change via the telephone, e-mail, or fax, or (d) the U.S. Postal Service forwarded address correction information. Figure 2 outlines these procedures.

[7] Experion, Trans Union and CSC Credit Services are outside vendors with consumer-credit information databases. Social security numbers of sample members with incomplete or out-of-date address information were forwarded to the vendors for address updates when the mailing dataset contained no valid address.

Figure 2.
Address Updating Procedures



As a new address was entered into the ADDRESS file for each record, its source (NCOA, credit bureau, Postal Address Correction Requested Card, telephone call, fax, e-mail, letter) was identified, a new ADDRNO was created to correspond to each address and a priority code was assigned to each address record. If all known addresses for a sample member were returned PND, the sample member's record in the MASTER file was flagged "no address available". All "no address available" records were forwarded to the three credit bureaus. The credit bureaus returned files containing addresses for each submitted record, with the date on which the credit bureau received the address. If more than one address for a sample member was received from the credit bureaus, the address number corresponding to the address with the most recent receipt date received the highest priority code. If one or more of the credit bureaus returned a previously unattempted address, the MASTER and ADDRESS files were updated and a re-mail was sent to the sample member. If none of the vendors had an updated address for the sample member, the operations contractor designated the sample member "nonlocatable" and stopped further mailings.

General mailing procedures. Prior to every mailing, the SCS searched the records in the MASTER file to identify which records should be excluded (e.g., sample members self-reported as ineligible for survey participation, sample members who had already returned survey forms, and members with no valid addresses available). For re-mails (sent between mailings), the SCS identified only those records that had been updated since the prior mailing. More specifically, the SCS identified records that had resulted in PNDs or had been manually flagged for re-mailing (e.g., in response to a sample member calling the operations contractor stating a reminder/thank you letter was received but not a survey, etc.).

Once all records for a particular mailing or re-mailing were identified, the SCS processed the records based on whether or not the mailing would include a survey form. If the mailing group was large enough to lead to a cost savings from sorting, the records were run through Group 1 postal software to sort the records according to first-class presort postal regulations. After this procedure, a unique Mail Identification Code (MIC) was assigned to each record. The MIC was assigned either from the survey lithocode list if a survey form was sent or independently if only a letter was sent.

The status of each mailing was tracked throughout the data collection so that address-correction information could be incorporated into all relevant mailings. When a mail piece came back PND, the next mail piece was sent to a new address (if one could be obtained during the mailing period). PNDs from the wave 3 and wave 4 surveys were re-mailed if a newer/updated address could be found.

Description of Each Mailing and Re-mailing

Survey distribution. The first item mailed to the sample member was the notification letter. DMDC uses notification letters for three reasons. First, contacting potential respondents multiple times is perhaps the most effective means of increasing survey response rates (Fox, Crask, & Kim, 1988; Yammarino, Skinner, & Childers, 1991). Second, the U.S. Postal Service does not always forward the large envelopes that are used to mail surveys despite the envelopes' first class postage and request to forward. However, forwarding is more routine for letters included in standard-sized business envelopes. Third, it is cheaper to send an initial notification

letter, have that letter returned PND and correct the address than it is to start the process by mailing and re-mailing the survey.

The second mailing was the wave 1 survey mailing; this was followed by four further mailings designed to increase response rates. A reminder/thank you letter was sent to all eligible sample members with usable addresses. The waves 2, 3 and 4 surveys provided sample members whom had lost or discarded the earlier survey(s) with additional opportunities to participate.

Table 9 lists the mailing dates and return results for each survey wave and re-mailing. The notification letter, inserted into a window envelope, notified sample members that they would be receiving a survey and encouraged their participation. The initial mailing contained 65,089 letters and the records for this mailing were selected on August 25, 1999 (64,843 domestic) and September 2, 1999 (246 foreign). The domestic mailing was completed August 27, 1999, and the foreign mailing on September 4, 1999.

The wave 1 survey mailing was sent to 64,898 sample members (64,654 domestic and 244 foreign addresses). The records were selected for the mailing on September 15, 1999. The mailing was sent out September 17-21, 1999. The letter and a survey booklet were inserted into a 9" x 12" window envelope along with a folded 9" x 12" business reply envelope. The letter requested sample members' participation in the survey.

A reminder/thank you letter was sent to 64,910 sample members (64,688 domestic and 222 foreign addresses) on September 28, 1999. Records were selected on September 24, 1999. The letter, inserted into a 4.5"x9.5" window envelope, thanked sample members for returning the survey if they had done so, and reminded them to complete and return the survey if they had not.

The wave 2 survey mailing was sent to 52,536 sample members (52,535 domestic addresses and 1 foreign address) from October 14-October 19, 1999. Records were selected on October 11 and October 13. The cover letter, a survey booklet and a folded 9" x 12" business reply envelope were inserted into a 9" x 12" window envelope. The letter again requested participation in the survey.

The initial wave 3 survey mailing was sent to 45,664 sample members (all domestic addresses) between November 1 and November 9, 1999. Records were selected on October 22, 1999. The cover letter, a survey booklet and a folded 9" x 12" business reply envelope were inserted into a 9" x 12" window envelope. The letter again requested participation in the survey. One re-mailing of wave 3 surveys, totaling 4,107 packets, was sent on November 19, 1999 (records for this re-mail were selected on November 16, 1999).

The wave 4 survey mailing was sent to 34,907 sample members (all domestic addresses) on December 1 and 2, 1999. Records were selected on November 19, 1999. The cover letter, a survey booklet and a folded 9" x 12" business reply envelope were inserted into a 9" x 12" window envelope. The letter again requested participation in the survey. One re-mailing of 775 wave 4 survey packets was selected on December 20, 1999 and completed on December 21, 1999.

Table 9.
Mailings: Print File Creation Dates and Number of Mailings Sent, Returned, and PND

Mailing Numbers and Groups	Date*	Sent	Returns	PNDs
1. Notification mailing - domestic	8/25/99	64,843	N/A	9,095
2. Notification mailing - foreign	9/2/99	246	N/A	116
Subtotal: Notification		**65,089**		**9,211**
3. Wave 1 mailing - domestic	9/15/99	64,654	24,465	7,090
4. Wave 1 mailing - foreign	9/15/99	244	38	130
Subtotal: Wave 1 Survey		**64,898**	**24,503**	**7,220**
5. Reminder mailing – domestic	9/24/99	64,688	N/A	5,205
6. Reminder mailing - foreign	9/24/99	222	N/A	88
Subtotal: Reminder/Thank you		**64,910**		**5,293**
7. Wave 2 mailing - domestic	10/11/99 10/13/99	52,535	7,896	7,529
8. Wave 2 mailing - foreign	10/11/99	1	0	0
Subtotal: Wave 2 Survey		**52,536**	**7,896**	**7,529**
9. Wave 3 mailing – domestic	10/22/99	45,664	2,935	5,470
10. Wave 3 mailing – foreign	N/A	0	0	0
11. Wave 3 re-mail	11/16/99	4,107	432	161
Subtotal: Wave 3 Survey		**49,771**	**3,367**	**5,631**
12. Wave 4 mailing	11/19/99	34,907	1,344	260
13. Wave 4 re-mail	12/20/99	775	9	0
Subtotal: Wave 4 Survey		**35,682**	**1,353**	**260**
TOTAL		**333,886**	**37,119**	**35,144**

*This is the date on which records were identified for inclusion in a mailing and written to a print file.

Processing Returned Surveys

This phase of the survey process can be divided into four general steps. In the first stage, the operations contractor ran a 20-record check to pretest their data capture programs. In the second step, DRC performed two tasks: scanning raw data from every optic-read area on the first 50 returned surveys and using a DMDC-supplied coding scheme to write software that converted the raw data to scored data. In the third step, DRC revised their programs after the test with the first 50 records, scanned surveys in batches as they were returned, and prepared three (preliminary, interim, and final) datasets with codebook tables showing the frequency of response for each variable in the datasets. This step provided DMDC with an opportunity to monitor data collection and begin preliminary analysis. In the fourth stage of processing returned surveys, DRC created files that contain narrative information (e.g. comments) from the surveys. These four stages of processing returned surveys are more fully described in the remainder of this section.

Preparing the Scoring Software and Coding Scheme

As soon as DRC received a scannable copy of the survey form, programmers began writing and testing programs to capture the data from the surveys. The scanner program was set up to capture data from every optic-read bubble or box on the form. At the same time, DRC began writing software to convert raw data from the scanner to a scored dataset. To start this task, DMDC provided DRC with an annotated copy of the survey form contained in Appendix C and the coding notes contained in Appendix D.

A guiding assumption in designing the coding scheme was that the analysts creating the dataset would not be the only people analyzing the data. Individuals in governmental, private-sector, and academic organizations analyze DMDC datasets repeatedly over time. Care is taken in organizing and documenting DMDC surveys so that secondary analysts can use the data and be reasonably certain that they understand how the data are coded and what limitations exist. Moreover, every attempt is made to preserve all information from completed surveys so that secondary analysts can later construct variables that were not anticipated by the original DMDC researchers.

To test the initial scanning programs, the operations contractor ran a 20-record pretest. DMDC created representative data for 20 surveys and DRC scanned, edited, and re-coded these data according to the data-capture procedures. The resulting scanned data were reviewed by DMDC. Revisions were requested by DMDC and implemented prior to the 50-record pretest. DRC scanned the first 50 returned surveys and created a scored dataset for these cases. Both DRC and DMDC compared the returned surveys with the scored dataset for these first 50 cases. Checks were done to determine if (a) the scanner was set at an acceptable level to pick up lightly marked bubbles and (b) respondents were consistently answering in an unexpected manner.

Creating the Scored Dataset

Prior to scanning bubbled answers and key entering narrative answers, returned surveys were visually checked and separated into three groups: blank forms, forms with one or more items completed, and forms that were completed in ink or otherwise damaged or unscannable. Blank forms were further divided into batches according to the reason that the form was returned blank (e.g., receipt of more than one survey, respondent deceased, or no reason given). The reason was captured in BLKREAS in the SCS. All blank forms were optically scanned so that lithocodes could be tracked and the number of returns could be updated.

Approximately 1.8% (677) of the respondents returned surveys that could not be scanned because they had been mutilated in the mail, lightly marked, or completed in ink. These surveys were key entered in separate batches to ensure that all usable data were captured.

Once these preliminary steps were taken, survey form pages were separated, stacked, and assigned a batch number. If the sample member included any extraneous materials, the MIC was written on the materials, and the materials were forwarded to DMDC. As the surveys were scanned, the SCS recorded each survey's batch number, serial number and scan date. The surveys were machine edited for light marks, multiple marks, alignment, and correct lithocodes.

The scanned (or key entered) survey forms were boxed by batch number. Each box was labeled with batch number and project number to facilitate locating individual processed forms. Forms were stored for a period of six months after the project completion date and were destroyed upon receipt of written notice from DMDC.

In addition to the previously mentioned 20 and 50 record checks of test and raw data, DRC provided DMDC with preliminary, interim, and final datasets and codebook tables. DMDC used the preliminary and interim datasets and codebook tables to finalize the information to be documented in the tables, create additional flag variables, and begin preliminary analysis. The final version of the datasets and tables also went through a similar fine tuning before they were published in their present form.

Capturing the Respondent-supplied Statements

Key entry of open-end response items into text files. After each batch of surveys was scanned, the surveys were transferred to key-entry personnel for comment entry. These personnel manually checked each page of the survey to determine if a respondent had supplied narrative answers to "Other, please specify" items or the general comments section at the end of the survey. "Other, please specify" items offered respondents a space for writing an answer when the pre-specified options did not fully cover all alternatives. The text of the narrative information was key entered nearly verbatim into ASCII files and spell-checked. Proper names were replaced with "(name)," and expletives were changed to "(expletive)".

The ASCII comment files contain INRECNOs and lithocodes to allow DMDC personnel to relate narrative responses to all other variables in the ADS Form A databases. Because of privacy and confidentiality concerns, these files are not available for public release.

Setting specify flags for open-end response items in the scored dataset. When the scanner detected text in an "Other, please specify" or general comment area, it placed a "2" in the corresponding field in the scanned data files. These "2" flags were used during the survey field period to monitor the occurrence of write-ins and to help verify that all general comments and "Other, please specify" answers were keyed and associated with the appropriate sample member. Because the scanner could make false detections from printed text on the reverse side of the page, scanned detection of narrative answers may not be reliable for indicating that written text was entered. Once all key-entry was completed, the specify flags in the final scored datasets were set to reflect where open-end responses had been given by respondents.

Survey Analysis Files

This section of the report (a) provides an overview of requirements for analysis of the data, (b) documents the structure of survey analysis files created for the ADS Form A, (c) describes the assembly of the analysis files, and (d) provides an overview of the variables in the survey analysis files.

Estimation

Data for the ADS Form A were collected from an non-proportional stratified, single stage random sample. Responses were weighted up to population totals adjusting for differential sampling and response rates in demographically homogenous groups. In general, the procedures used to compute sample estimates of population parameters (including population totals, means, proportions, tests of hypotheses and regression relations) and their associated variances are derived from the probability structure that gives rise to the observations. As with other surveys that involve complex probability structures, most of the parameter estimates of interest in this survey take the form of non-linear statistics. Examples include domain means and proportions where the denominator values are unknown and must be estimated from the sample data. The estimator takes the form of a ratio of random variables (i.e., the ratio of the estimated numerator and denominator totals or counts). In general, ratio estimates are not unbiased and their variances cannot be expressed in closed form. The bias in a ratio estimate depends on the variance associated with the denominator total or count and can usually be ignored in samples having a large number of observations. As a working rule, the bias may be assumed negligible if the number of observations on which the estimate is based exceeds 30 or is otherwise large enough so that the coefficient of variation [SE(x)/x] of the denominator is less than .10 (cf., Cochran, 1977, pp. 153-165).

Approximations must, however, be found for the variances. The approximations commonly take the form of Taylor series linearizations or replicate methods such as those based on resampling methods. Variables have been included in the analyses files so that variance estimates can be based on Taylor series linearizations computed by SUDAAN[8] for a stratified, without replacement design. Replicate methods can also be used to estimate the variances. Replicate weights (using the jackknife method of linearization) have been prepared. Appendix J gives examples of analyses using these methods.

Many of the standard statistical software packages, such as SPSS[9] and older versions of SAS[10], do not properly compute variance estimates from weighted data that were collected with a design other than simple random sampling. Analyzing the ADS Form A datasets with the proper use of PSW0 as the weighting factor in standard statistical programs will result in accurate point estimates but will not result in accurate variance estimates. Wolter (1985) provides a detailed discussion on methods used for variance estimation from sample surveys including replication, Taylor series approximation, and analytic methods.

[8] SUDAAN® is a registered trademark of Research Triangle Institute, Research Triangle Park, NC, USA.
[9] SPSS® is a registered trademark of SPSS Inc., Chicago, IL, USA.
[10] SAS added some features in Version 7 and then expanded them with releases 8.0 and 8.1.

Data Structure

Care was taken in the preparation of the survey analysis files to provide public access to data from the survey with sufficient information for accurate estimations, while meeting requirements for participant and non-participant anonymity. As described below, some detailed variables have been deleted from the public-release files either because (a) they are typically needed only to analyze survey methods and not needed to analyze the survey data or (b) they provide too great a chance of identifying an individual. For the latter reason, some demographic variables are available on public files only in a collapsed version.

In addition to a public-release file, a confidential file (containing a more complete set of variables than the public-release file) has been prepared for internal DMDC use. These files were prepared as SAS system files. An ASCII (Operating System or OS) flat file was prepared from the public-release SAS system file. File names are indicated in Table 10.

Table 10.
Analysis File Names

Type of File	File Name
Public-release File – SAS	ADS99PUB.SD2
Confidential File – SAS	ADS99CON.SD2
Public-release File – OS	ADS99PUB.DAT

The structure of the confidential file is shown in Figure 3. The confidential file contains the public-release file plus additional confidential variables.

All variables in the confidential file are documented in this report. Appendices E and F list all variables with a notation to indicate which variables are confidential, and show where each variable is documented. Intermediate weighting variables that appear only in the confidential file are documented by Flores-Cervantes et al. (2000). Variables that appear in collapsed form in the public-release part of the file and in a fuller version only in the confidential file are discussed later.

Both the confidential file and public-release file contain 66,040 records, one for every sampled individual. As depicted in Figure 3, these 66,040 records can be divided into three subgroups. The first subgroup, nonrespondents, includes all records indicated by ELIGFLGW=3, where no usable response was received[11] (n= 374), or no information was received to indicate eligibility (n= 27,291). It also includes self- or proxy-reported ineligible records (n=2,275). The total number of records in this subgroup is 29,940.

Assignment of a record to the other two subgroups was based on whether (a) a member returned a "completed" survey; and (b) the person was eligible to be included in the population of interest (i.e., was found to be on active duty in the DEERS files at the end of May and September 1999, and did not contact DRC to indicate that they were ineligible).

[11] To be useable, a questionnaire had to have at least one item in each of the questions 39, 50 and 52 answered.

These two subgroups of records are required for analyses: records for study subjects determined to be ineligible (known ineligibles), and records for study subjects who returned usable surveys and are assumed to be eligible (eligible respondents). Both the eligible respondents (ELIGFLGW = 1) and known ineligibles (ELIGFLGW = 2) are included because both types of records were used to develop weights that sum to the population total, and both types of records are needed to compute accurate variance estimates by the Taylor series linearization method implemented by SUDAAN.

Figure 3.
The Structure of the Survey Analysis Files

Subgroups	Public-release File	Confidential and Detailed Methodological Variables	Number of Records in Subgroup
Nonrespondents (ELIGFLGW=3)			29,940
Known Ineligible Sample Members (ELIGFLGW=2)			2,911
Eligible Respondents (ELIGFLGW=1)			33,189

Note. The shaded portion represents the subset of the data typically required for analysis.

Variables in the Survey Analysis Files

Public-release File

The variables in the public-release file fall into five categories: (a) derived from survey responses, (b) created by the operations contractor (DRC) to document survey operations, (c) created by the analysis contractor (Westat) to analyze the weighted dataset, (d) created by DMDC for analysis, and (e) extracted from administrative personnel records. Variables are grouped in these categories in Appendix F.

Information gathered on the survey. These variables came directly from the survey or were constructed using only information from the survey. There is at least one variable for every item in the survey except for a few items that had to be removed to preserve confidentiality. The annotated questionnaire (see Appendix C) contains the item names, the values used to code the pre-specified alternatives, and references to applicable coding notes in Appendix D. Appendix I

gives information on how DMDC evaluated the special values used for variables in survey skip patterns and documents the treatment of these values in DMDC analyses reported.

Although the first part of Appendix D extensively documents the conventions that DMDC uses to name survey variables, a brief overview of the naming convention is also given here. In general, the survey-derived variables can be classified as variables that begin with either "M," "SR" or "PR."

The naming of "M" variables is reviewed using the example variable, "M9916A". The first character "M" in the name signifies the name of the study, (Active Duty Member). The second and third characters indicate the year in which the survey was initially scheduled to be administered (1999). The remaining digits indicate the question and item number. In this example, the fourth and fifth digits indicate the main question number (16) and the sixth and seventh digits (if any) indicate the sub-question item, such as (in this example) item A from a list of items in question 16.

The "SR" variables are a set of primarily demographic items that are identically named across all DMDC surveys. The "SR" serves as a mnemonic for self-report with the remainder of the name indicating the data being collected. For example, "SRRACE" is the variable name for the item that asks sample members what race they consider themselves to be. Although all survey data—including the variables beginning with "M"—are self-reported, the "SR" is used to distinguish survey-reported information from DMDC-provided information (e.g., "SRRACE" from the survey versus "RACE" from DMDC databases). Many items in this survey also requested proxy reports of the demographics of the individual's spouse. These demographic variables start with "PR" to distinguish the spouse characteristics from the member characteristics that start with "SR."

Information on operations. The operations contractor created identifying variables. The identifying variables describe how the record was tracked and processed once a survey was returned. Other identifying variables provide additional information for survey tracking. ARVDATE is the date the survey arrived at the survey operations center. The DMDC-provided identification number, DMDC_ID, is unique. (Note: DMDC_ID was not originally provided for this sample but generated later.)

Information on weighting. Derivation of weights is discussed in detail by Flores-Cervantes et. al (2000). See Appendix J for examples of analyses using these variables:

ELIGFLGW	Eligibility flag
POPTVSTR	Taylor series variance strata population
SMPTVSTR	Taylor's series achieved sample size in variance strata
TVSTR	Taylor's series variance strata
AD1CL	Non-response adjustment cell
PSTSTR	Final post-stratification cell
PSW0	Final post-stratified weight
PSW1-PSW170	Final post-stratified weight for Replicate 1 through Replicate 170
TVUNIT	Taylor series variance unit

Variables constructed for analysis. Certain demographic variables, including some information collected on the survey form, had to be censored to preserve the anonymity promised to survey respondents and nonrespondents. For example, RM9904 is recoded from M9904. An "R" as the first letter of a variable listed in sections of Appendices E and F is an indication that the variable has been recoded to preserve anonymity of respondents and that a more complete variable is available only on the confidential analysis file.

Certain key demographic variables were constructed for DMDC analyses. These analytic variables, starting with "X", are based primarily on self-reported[12] information from the survey. In cases where the self-reported information was missing, the missing value was imputed from the member's record. Also, other imputations were made so that race and ethnicity could be reported in accordance with Office of Management and Budget Bulletin 00-02 (March 2000) guidance for aggregation and allocation of multiple race responses for use in civil rights monitoring and enforcement. For members who self-reported "Some other race" as their race, race was imputed from record data; further, if the record data did not include a valid race value, then race was treated as missing.

The SAS code used in constructing these analytic variables are included in Appendix I. Two of the key demographic variables (i.e., XRETH1 and XMIMPP) are included in the confidential analytic variable section of the file. Two other variables (i.e., RXRETH1 and XMIMPPC) are recodings of the actual variables used in DMDC analysis –variables that are only contained on the confidential file because of the possibility of them being used in combination with other variables to identify individuals.

Appendix I also document many of the decisions made in the analyses reported. For a large number of survey items, analysts must make decisions on the treatment of special codes used to indicate inconsistencies in the survey data, especially on respondent failures to follow skip pattern directions. Skip flags indicate if the skip directions were followed.

Information from records. While most of the variables used in sample design and selection are too detailed to be in the public-release file (see the later sections on confidential variables), some items from the administrative records are included in the public-release file. One of the demographic variables that was not modified from record data are included on the public-release file: age (AGE_M)

Confidential File

In addition to variables on the public-release file, the confidential file has five additional categories of variables: (a) the uncensored version of survey items that appear in a collapsed form in the public-release section, (b) the uncensored version of key demographic variables used in analyses that appear in a collapsed form in the public-release section; (c) detailed variables created by DRC to document operations, (d) detailed variables used in sampling, and (e) detailed variables used in weighting. Variables are grouped in these categories in Appendices E and F.

[12] Self-reported demographics (e.g., paygrade, race/ethnicity, Service) on the survey are current with the collection of the other information on the survey and provide more consistency in responses than using the administrative record for these demographics.

Confidential variables—survey data. This section of the confidential file contains the original full version of survey variables that had to be recoded for the public-release file to preserve confidentiality. To the extent possible, recoded versions of these variables are in the public-release file section for variables constructed for analysis.

Confidential variables—analysis data. This section of the confidential file contains the original full version of analytic variables constructed by DMDC. To the extent possible, recoded versions of these variables are in the public-release file section for variables constructed for analysis.

Confidential variables—operations data. This section of the confidential file contains operational variables created by DRC. These variables are useful for methodological studies and/or were used by Westat in determining eligibility and response status.

The identifying variables describe how the record was processed once a survey was returned. The variables BATCH, SERIAL, and LITHO uniquely identify each returned survey. LITHO is the lithocode scanned from the survey. BATCH and SERIAL are the codes printed on the survey during scanning to identify the scan batch number and scan order of each survey. These numbers can be used to retrieve the paper copy of a survey for a short time after it has been scanned (e.g., should researchers want to check electronically-stored information against the respondent's answer on the paper survey). SCANDATE is the date the survey was scanned and INRECNO is the unique identification number assigned to each record/member. MAILING identifies which survey (i.e., the first-, second-, or third-wave mailing) the respondent returned. DUPRET and DUPRET2 indicate the receipt of multiple returns. DUPRET2 includes blank returns in the multiple count; DUPRET excludes these returns.

The classification variables describe how individual sample members' records were grouped and indexed. FLAG_FIN indicates the final disposition status of a sample member (i.e., survey returned, blank survey returned, not locatable, refused, or no return). Several other classification variables were used to categorize a survey's final disposition. These variables are: BLKREAS, SCSINEL, and REFUSE. BLKREAS codes the reason given by the sample member for returning a blank survey, SCSINEL indicates the reason given by the sample member for being ineligible, and REFUSE indicates whether a sample member refused to complete a survey.

Confidential variables—sampling and record data. This section of the confidential file contains administrative file variables and constructed variables used in determining the sampling design. It also includes the sampling strata identifiers and counts.

Confidential variables—weighting. This section of the confidential file contains variables used in analysis of nonresponse and in the construction of the weights. For more detail, see Flores-Cervantes et. al. (2000).

A Description of the Information in Appendix G

Regardless of whether analysts use all or only portions of the database, all analysts should replicate the results found in the tables in Appendix G. It is only by replicating these results that analysts can be sure that they are reading the data correctly. We especially

recommend that frequencies be done for ELIGFLGW. These counts should be compared to the codebook pages for these variables and to the numbers in Figure 4. These numbers are also key to checking that the subset files for analysis contain the correct number of cases.

An example of the tables in Appendix G is depicted in Figure 4. Fourteen aspects of the example are indicated by superscripted numbers and described in the following paragraphs that correspond to those numbers.

1. Codebook title. The codebook title is the same for every table in Appendix G of this codebook. It lists both the general study and the specific survey form being summarized. If applicable, the indented text under the title presents the verbatim question or instructions that accompany a specific item in the survey.

2. Variable name. The variable name for a survey item is up to eight characters in length and corresponds to the variable name that is used in the SAS-based, public-release datafile. The conventions for naming survey-derived variables are documented in Appendix D. Appendix F contains a full listing of the public-release file variables, as well as short descriptions of the variables.

3. Introductory text for the item series that includes the specific survey item. If there is any introductory text for a series of items it is displayed here. In some cases, the text is a simple instruction to the person to indicate whether they agree with the following statements or in some cases it is more extended instruction setting the context for answering.

4. Statement of survey item text. For survey items, this text is the verbatim item wording. For other variables, this text provides a verbal description of the variable.

5. Location of the item on the OS data file. This block provides the location of the variable on the OS (ASCII) datafile. The OS data block documents (a) the starting and ending column numbers where the data are stored and (b) the number of columns that the data occupy.

6. SAS datafile information. This block indicates format name, variable type, length and informat of the data in the SAS datafile. The last block indicates the informat appropriate for reading the data from the OS datafile.

7. Counts of item value responses. This column indicates the number of sample members who fall into the category corresponding to each value for the variable. The count provided for each variable value should correspond exactly to those that analysts would obtain when running unweighted frequencies on all 66,040 records in the accompanying database. Before running complex statistical analyses, analysts are encouraged to re-create these frequency tables. Re-creating the counts minimally ensures that the analysts' computers and programs are correctly reading the data.

8. Respondent percentages for each value. This column indicates the percentage of sample members who marked each variable value. The percentages are calculated by dividing the row value in the "FREQ" column by the total listed at the bottom of the "FREQ" column.

The percentages provided for each variable value should correspond exactly to those that analysts would obtain when running unweighted frequencies on all 66,040 records in the accompanying database.

9. Response OS values. This column presents the OS (ASCII) code for the actual or re-coded response values for each survey item. Further details on the values in this column are found in the annotated survey form (Appendix C). For example, all negative values are found in Appendix C.

10. Response SAS values. This column presents the SAS code for the actual or re-coded response values for each survey item. Further details on the values in this column are found in either the annotated survey form (Appendix C) or coding scheme (Appendix D).

11. Explanation of the item value codes. This column presents brief verbal explanations of the OS and SAS coding for each survey item. If the coded information corresponds to survey response alternatives, the text in the table is the verbatim response from the survey instrument. More detailed explanations are found in either the annotated survey form (Appendix C) or coding scheme (Appendix D).

12. Total of response frequencies and percents. The number appearing at the bottom of the "FREQ" column is the total number of sample members in the public-release file. This number is the same for every table in this codebook. That is, every sample member in the database is accounted for on every variable even if the variable indicates only that the information was missing for that sample member. The number appearing at the bottom of the "PERCENT" column is typically 100.0. Rounding error, however, occasionally causes the total percentage to be slightly above or below 100.0.

13. Messages to analysts. The messages alert analysts to situations specific to a variable including: (a) rounding errors resulting in a total percentage other than 100 percent; (b) the variable having values that are "too numerous to list;" (c) extraction of the variable from another specified database; (d) creation of the variable from two or more variables specified in the message; and (e) further clarification of the survey item corresponding to the variable.

14. Codebook page number. This is the Appendix G page number corresponding to a specific variable. Appendices E and F identify the page number in Appendix G where the variable can be found.

Figure 4.
Annotated Example of a Table from Appendix G

[1]1999 Survey of Active Duty Personnel

[3] If this type of plan were made available to you, how likely would you be to participate in each of the following situations?

[2] M9997A [4] If there were no government matching

[5]OS DATA

COLS	LENGTH
1383-1384	2

[6]SAS DATA

FORMAT NAME	TYPE	LENGTH	INFORMAT
ADLKLY1	NUM	4	STDOS2

[7]FREQ	[8]PERCENT	[9]OS VALUE	[10]SAS VALUE	[11]MEANING
857	1.3	-9	.	No response
10	0.0	-8	.A	Multiple Response
29609	44.8	-1	.B	No survey return
3604	5.3	1	1	Very likely
8411	12.7	2	2	Likely
7085	10.7	3	3	Neither likely nor unlikely
7918	12.0	4	4	Unlikely
8546	12.9	5	5	Very unlikely
[12]66040	[12]99.9	TOTALS		

[13]PERCENT TOTAL DOES NOT = 100 DUE TO ROUNDING ERROR.

[14]G-499

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Appendix A

1999 Survey of Active Duty Personnel

RCS # DD–P&R (OT) 2072
Exp. 03/03/2000

1999 Survey of Active Duty Personnel

Form A

DEFENSE MANPOWER DATA CENTER
ATTN: SURVEY PROCESSING CENTER
DATA RECOGNITION CORPORATION
5900 BAKER ROAD
MINNETONKA, MN 55345-5967

DMDC Survey No. 99-0001

PLEASE DO NOT WRITE IN THE AREA BELOW

SERIAL #

PRIVACY NOTICE

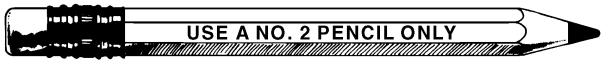
In accordance with the Privacy Act of 1974 (Public Law 93-579), this notice informs you of the purpose of the survey and how the findings will be used. Please read it carefully.

AUTHORITY: 10 U.S.C. 136, 10 U.S.C. 1782 and 10 U.S.C. 2358

PRINCIPAL PURPOSE: Information collected in this survey will be used to assess attitudes and perceptions of military life. This information will assist in the formulation of policies which may be needed to improve the military working environment and relevant personnel policies.

ROUTINE USES: Reports will be provided to the Secretaries of Defense and Transportation, and each Military Service. Findings will be used in reports and provided to Congress. Some findings may be published by the Defense Manpower Data Center (DMDC) or professional journals, or reported in manuscripts presented at conferences, symposia, and scientific meetings. In no case will the data be reported or used for identifiable individual(s).

DISCLOSURE: Providing information on this survey is voluntary. There is no penalty if you choose not to respond. However, maximum participation is encouraged so that the data will be complete and representative. Your survey instrument will be treated as confidential. Identifying information will be used only by persons engaged in, and for the purposes of, the survey. Only group statistics will be reported.



THIS IS NOT A TEST, SO TAKE YOUR TIME.

SELECT ANSWERS THAT BEST FIT YOU.

MARK ONLY ONE ANSWER FOR EACH QUESTION
UNLESS THE QUESTION SAYS TO MARK ALL THAT APPLY.

- **MAKE HEAVY BLACK MARKS THAT FILL THE RESPONSE CIRCLES.**
- **DO NOT MAKE ANY MARKS OUTSIDE OF THE RESPONSE CIRCLES OR WRITE-IN BOXES.**
- **IF YOU CHANGE YOUR MIND, ERASE OLD MARKS COMPLETELY.**
- **DO NOT USE INK, BALL-POINT, OR FELT TIP PENS.**

RIGHT MARK ○ ● ○ ○ **WRONG MARKS** ✓ ○ ✗ ○ ◒ ○ ◔

★U.S. GOVERNMENT PRINTING OFFICE: 1998–432-865/60006

223572-1

ASSIGNMENT INFORMATION

1. **During the past 12 months, how many hours per week did you usually work?**

   - ◯ 40 hours or less
   - ◯ 41–50 hours
   - ◯ 51–60 hours
   - ◯ 61–70 hours
   - ◯ 71–80 hours
   - ◯ 81 hours or more

2. **During your last full workweek, how many hours did you work?**

   - ◯ 40 hours or less
   - ◯ 41–50 hours
   - ◯ 51–60 hours
   - ◯ 61–70 hours
   - ◯ 71–80 hours
   - ◯ 81 hours or more

3. **When you have had to work more hours than usual during the past 12 months, what were the primary reasons? (MARK ALL THAT APPLY.)**

   - ◯ Not applicable
   - ◯ Mission critical requirements
   - ◯ Mission preparation/training/maintenance
   - ◯ Tasked with additional duties (e.g., special projects)
   - ◯ Unit was getting ready for deployment
   - ◯ Manning not sufficient for workload (i.e., not enough authorizations/billets)
   - ◯ Unit was under-manned (i.e., authorizations/billets not filled)
   - ◯ Part of unit was deployed
   - ◯ Demanding supervisor
   - ◯ Problems involving subordinates
   - ◯ High workload
   - ◯ Poor planning or lack of planning
   - ◯ Others were not carrying their workload
   - ◯ Inspections and inspection preparation
   - ◯ Equipment failure and repairs
   - ◯ None of the above

4. **Are you currently assigned to ship or shore duty?**

   - ◯ Ship
   - ◯ Shore
   - ◯ Does not apply, I do not have a ship/shore rotation

In this survey, "permanent duty station" is considered your permanent post, base, port, or other duty location, such as, a recruiting station.

5. **Where is your permanent duty station located?**

   - ◯ In one of the 50 States or the District of Columbia
   - ◯ In American Samoa, Guam, U.S. Virgin Islands or Puerto Rico
   - ◯ Overseas

6. **Are you currently on a deployment that will keep you away from home for at least 30 consecutive days?**

   - ◯ Yes
   - ◯ No ⇨ Go to Question 8

7. **Where are you currently deployed?**

   - ◯ In one of the 50 States or the District of Columbia
   - ◯ In American Samoa, Guam, U.S. Virgin Islands or Puerto Rico
   - ◯ Overseas
   - ◯ Afloat at sea

8. **Where do you live at your permanent duty station?**

   - ◯ Aboard ship
   - ◯ Barracks/dorm (including BEQ or BOQ)
   - ◯ Geographic bachelor's barracks
   - ◯ Military family housing, on base
   - ◯ Military family housing, off base
   - ◯ Civilian housing that I own or pay mortgage on
   - ◯ Military or civilian housing that I rent, off base
   - ◯ Other

9. **How satisfied are you with the following characteristics of your current residence and community at your permanent duty station?**

	Very dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Very satisfied
a. Cost of residence	◯	◯	◯	◯	◯
b. Quality and condition of residence	◯	◯	◯	◯	◯
c. Amount of livable space in residence	◯	◯	◯	◯	◯
d. Privacy of residence	◯	◯	◯	◯	◯
e. Quality of housing in the area where you live	◯	◯	◯	◯	◯
f. Safety of the area where you live	◯	◯	◯	◯	◯
g. Distance to workplace	◯	◯	◯	◯	◯
h. Distance to shopping areas	◯	◯	◯	◯	◯
i. Distance to recreation areas	◯	◯	◯	◯	◯

PLEASE DO NOT WRITE IN THIS AREA

SERIAL #

10. Why did you choose your current residence at your permanent duty station? (MARK ALL THAT APPLY.)

- ◯ I had no choice in my residence
- ◯ Best value for the money
- ◯ Safety and security
- ◯ Close to workplace
- ◯ Close to base facilities, services or programs
- ◯ Spouse's choice
- ◯ Better schools
- ◯ Fewer rules
- ◯ Privacy
- ◯ Wanted to live in a specific area or community
- ◯ Available right away
- ◯ Military housing was unavailable
- ◯ Civilian housing was unavailable
- ◯ Better than available military housing (on base or off base)
- ◯ Better than available civilian housing
- ◯ Wanted military neighbors
- ◯ Wanted civilian neighbors
- ◯ Other

11. If your cost to live in civilian or military housing at your permanent duty station were the same, where would you prefer to live?

- ◯ Military housing, on base
- ◯ Military operated housing, off base
- ◯ Civilian housing

12. During your active duty career, how many permanent changes of station (PCSs) have you made? (INCLUDE PCS FOR A REMOTE OR UNACCOMPANIED TOUR.)

- ◯ Does not apply, I have not yet received my first assignment ⇨ Go to Question 14
- ◯ 1
- ◯ 2
- ◯ 3
- ◯ 4
- ◯ 5
- ◯ 6
- ◯ 7
- ◯ 8
- ◯ 9
- ◯ 10 or more

13. For your most recent PCS move, were any of the following a problem? (ANSWER EVEN IF THIS IS YOUR FIRST ASSIGNMENT.)

	Does not apply	Not a problem	Slight problem	Somewhat of a problem	Serious problem
a. Change in PCS orders (report date or destination)	◯	◯	◯	◯	◯
b. Hours and location of offices providing PCS assistance	◯	◯	◯	◯	◯
c. Waiting for permanent housing to become available	◯	◯	◯	◯	◯
d. Selling or renting out your former residence	◯	◯	◯	◯	◯
e. Purchasing or renting your current residence	◯	◯	◯	◯	◯
f. Amount of time to prepare for move	◯	◯	◯	◯	◯
g. Shipping/storing household goods	◯	◯	◯	◯	◯
h. TAD/TDY en route	◯	◯	◯	◯	◯
i. Temporary lodging expenses	◯	◯	◯	◯	◯
j. Costs related to security deposit(s)	◯	◯	◯	◯	◯
k. Cost of moving pets	◯	◯	◯	◯	◯
l. Cost of moving vehicles	◯	◯	◯	◯	◯
m. Costs of setting up new residence (e.g., curtains, carpeting, painting)	◯	◯	◯	◯	◯
n. Settling damage claims	◯	◯	◯	◯	◯
o. Non-reimbursed transportation costs incurred during the move	◯	◯	◯	◯	◯
p. Timeliness of reimbursements	◯	◯	◯	◯	◯
q. Accuracy of reimbursements	◯	◯	◯	◯	◯
r. Time off at destination to complete move	◯	◯	◯	◯	◯
s. Change in cost of living	◯	◯	◯	◯	◯
t. Loss or decrease of spouse income	◯	◯	◯	◯	◯
u. Spouse employment	◯	◯	◯	◯	◯
v. Transferability of entitlements (e.g., Supplemental Security Income)	◯	◯	◯	◯	◯
w. Obtaining special education services	◯	◯	◯	◯	◯
x. Spouse/dependents changing schools	◯	◯	◯	◯	◯
y. Transferability of college credits	◯	◯	◯	◯	◯
z. Availability of childcare	◯	◯	◯	◯	◯

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In this survey, the definition of "military duties" includes deployments, TADs/TDYs, training, military education, time at sea, and field exercises/alerts.

14. In the past 12 months, have you been away from your permanent duty station overnight because of your military duties?

- ◯ Yes
- ◯ No ⇨ Go to Question 19

15. In the past 12 months, how many separate times were you away from your permanent duty station for at least one night because of your military duties?

- ◯ 1–2 times
- ◯ 3–4 times
- ◯ 5–6 times
- ◯ 7–8 times
- ◯ 9–10 times
- ◯ 11–12 times
- ◯ 13 times or more

16. During the past 12 months, how long were you away from your permanent duty station for the following military duties? (ADD UP ALL NIGHTS AWAY FROM YOUR PERMANENT DUTY STATION; ASSIGN EACH NIGHT TO ONLY ONE TYPE OF MILITARY DUTY.)

	None	Less than 1 month	1 month to less than 3 months	3 months to less than 5 months	5 months to less than 7 months	7 months to less than 10 months	10 months to 12 months
a. Peacekeeping or other contingency operation	◯	◯	◯	◯	◯	◯	◯
b. Foreign humanitarian assistance mission	◯	◯	◯	◯	◯	◯	◯
c. Unit training at combat training centers	◯	◯	◯	◯	◯	◯	◯
d. Counter drug operation	◯	◯	◯	◯	◯	◯	◯
e. Domestic disaster or civil emergency	◯	◯	◯	◯	◯	◯	◯
f. Time at sea for scheduled deployments (other than for the above)	◯	◯	◯	◯	◯	◯	◯
g. Other time at sea (other than for the above)	◯	◯	◯	◯	◯	◯	◯
h. Joint training/field exercises/alerts (other than for the above)	◯	◯	◯	◯	◯	◯	◯
i. Military education (other than for the above)	◯	◯	◯	◯	◯	◯	◯
j. Other TADs/TDYs	◯	◯	◯	◯	◯	◯	◯

17. In the past 12 months, what was the total length of time you were away from your permanent duty station because of your military duties? (ADD UP ALL NIGHTS AWAY FROM YOUR PERMANENT DUTY STATION.)

- ◯ Less than 1 month
- ◯ 1 month to less than 3 months
- ◯ 3 months to less than 5 months
- ◯ 5 months to less than 7 months
- ◯ 7 months to less than 10 months
- ◯ 10 months to 12 months

18. During the past 12 months, have any of the following been a concern while you were away? (MARK ALL THAT APPLY.)

- ◯ Managing expenses and bills
- ◯ Household repairs, yard work, car maintenance
- ◯ Storage or security of personal belongings
- ◯ Pet care
- ◯ Interruption of off duty education
- ◯ Loss of part-time job
- ◯ Your ability to communicate with family
- ◯ Safety of your family in their community
- ◯ Spouse's job demands or education demands
- ◯ Childcare arrangements
- ◯ Eldercare
- ◯ Child's/children's education
- ◯ Serious health or emotional problems of spouse, child, parent, sibling, or elderly family member
- ◯ Divorce or marital problems
- ◯ Birth or adoption of a child
- ◯ Your or your spouse's pregnancy
- ◯ Death of a family member
- ◯ Major financial hardship or bankruptcy within your family
- ◯ Major home repair or replacement due to casualty, theft, fire or severe weather (e.g., hurricane, flood, earthquake, tornado)
- ◯ Other (specify):

PLEASE DO NOT WRITE IN THIS AREA

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19. How many days over the past 12 months have you been detailed for work outside the scope of your primary duties (e.g., "augmentee" assignments, maintenance tasks, installation support, support tasking, and wing ready teams)?

- ◯ None
- ◯ 1–10 days
- ◯ 11–20 days
- ◯ 21–30 days
- ◯ 31–40 days
- ◯ 41–50 days
- ◯ 51–60 days
- ◯ More than 60 days

20. How prepared do you believe your unit is to perform its mission with regard to . . . ?

	Very poorly prepared	Poorly prepared	Neither well nor poorly prepared	Well prepared	Very well prepared
a. Manning level	◯	◯	◯	◯	◯
b. Training	◯	◯	◯	◯	◯
c. Parts and equipment	◯	◯	◯	◯	◯

21. Suppose you will be in the military for the next 12 months. What is the total length of time that you would expect to be away from your permanent duty station because of your military duties?

- ◯ I would not expect to be away from my permanent duty station in the next 12 months
- ◯ Less than 1 month
- ◯ 1 month to less than 3 months
- ◯ 3 months to less than 5 months
- ◯ 5 months to less than 7 months
- ◯ 7 months to less than 10 months
- ◯ 10 months to 12 months

CAREER INFORMATION

22. What were your career intentions when you first entered active duty?

- ◯ I intended to remain on active duty until I was eligible for retirement
- ◯ I intended to complete my obligation and then leave active duty
- ◯ I was not sure if I would stay on active duty or leave

23. Think back to when you first entered active duty. Which of the following best describe the primary reasons why you joined? (MARK ALL THAT APPLY.)

- ◯ A. Trouble in college or break from school
- ◯ B. Get away from family, personal situation, or home town
- ◯ C. Time to figure out what you wanted to do
- ◯ D. Test yourself physically or mentally
- ◯ E. Challenging or interesting work
- ◯ F. Always wanted to be in the military
- ◯ G. Military tradition in your family
- ◯ H. Parents' encouragement
- ◯ I. Desire to serve your country
- ◯ J. Image portrayed by military personnel
- ◯ K. Few or no civilian job opportunities
- ◯ L. Pay and allowance(s)
- ◯ M. Retirement pay and benefits
- ◯ N. Security and stability of the job
- ◯ O. Opportunity to work in a specific occupation
- ◯ P. Training in skills useful for civilian employment
- ◯ Q. Family benefits
- ◯ R. Travel and new experiences
- ◯ S. Money for college, college repayment, education benefits and opportunities
- ◯ T. Personal growth and maturity
- ◯ U. Other

24. Of all your reasons listed in Question 23, which is the most important reason why you joined?

◯ A	◯ B	◯ C	◯ D	◯ E	◯ F	◯ G
◯ H	◯ I	◯ J	◯ K	◯ L	◯ M	◯ N
◯ O	◯ P	◯ Q	◯ R	◯ S	◯ T	◯ U

25. . . . and which is the next most important reason why you joined?

◯ A	◯ B	◯ C	◯ D	◯ E	◯ F	◯ G
◯ H	◯ I	◯ J	◯ K	◯ L	◯ M	◯ N
◯ O	◯ P	◯ Q	◯ R	◯ S	◯ T	◯ U
◯ None						

26. When you first entered active duty service, did you have a preference for a military occupation?

- ◯ Yes
- ◯ No ⇨ Go to Question 28

27. Did you receive the military occupation of your choice?

- ◯ Yes
- ◯ No, but I received a related occupation
- ◯ No, I received an occupation unrelated to my choice

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28. How satisfied are you now with the military occupation you received when you first entered active duty?

- ◯ Very satisfied
- ◯ Satisfied
- ◯ Neither satisfied nor dissatisfied
- ◯ Dissatisfied
- ◯ Very dissatisfied

29. In which term of service are you serving now? (DO NOT COUNT EXTENSIONS AS SERPARATE TERMS OF ENLISTMENT.)

- ◯ I am on indefinite status ⇨ Go to Question 32
- ◯ I am an officer serving an obligation
- ◯ 1st enlistment
- ◯ 2nd or later enlistment

30. How much time remains in your current enlistment term or service obligation?

- ◯ Less than 3 months
- ◯ 3 months to less than 7 months
- ◯ 7 months to less than 1 year
- ◯ 1 year to less than 2 years
- ◯ 2 years to less than 3 years
- ◯ 3 years or more

31. How likely is it that you would be allowed to stay on active duty service at the end of your current term or service obligation?

- ◯ Very likely
- ◯ Likely
- ◯ Neither likely nor unlikely
- ◯ Unlikely
- ◯ Very unlikely

32. Suppose that you have to decide whether to stay on active duty. Assuming you could stay, how likely is it that you would choose to do so?

- ◯ Very likely
- ◯ Likely
- ◯ Neither likely nor unlikely
- ◯ Unlikely
- ◯ Very unlikely

33. If you stay on active duty, when would you expect your next promotion to a higher grade?

- ◯ Less than 3 months
- ◯ 3 months to less than 7 months
- ◯ 7 months to less than 1 year
- ◯ 1 year to less than 2 years
- ◯ 2 years or more
- ◯ Does not apply, I do not expect a promotion
- ◯ Does not apply, I have no opportunities for promotion

34. Does your spouse, girlfriend or boyfriend think you should stay on or leave active duty?

- ◯ Strongly favors staying
- ◯ Somewhat favors staying
- ◯ Has no opinion one way or the other
- ◯ Somewhat favors leaving
- ◯ Strongly favors leaving
- ◯ Does not apply, I don't have a spouse or girlfriend/boyfriend

35. If you could stay on active duty as long as you want, how likely is it that you would choose to serve in the military for at least 20 years?

- ◯ Very likely
- ◯ Likely
- ◯ Neither likely nor unlikely
- ◯ Unlikely
- ◯ Very unlikely
- ◯ Does not apply, I have 20 or more years of service

36. When you finally leave active duty, how many total years of service do you expect to have?

◯ 0	◯ 0
◯ 1	◯ 1
◯ 2	◯ 2
◯ 3	◯ 3
◯ 4	◯ 4
	◯ 5
	◯ 6
	◯ 7
	◯ 8
	◯ 9

YEARS

For example, if you expect to leave after completing 6 years of service, enter "06" in the boxes and fill in the corresponding circles. To indicate less than 1 year, enter "00."

37. If you were to leave active duty in the next 12 months, what would be your primary activity?

- ◯ Attend college or university
- ◯ Work for civilian company or organization
- ◯ Work in a civilian government job (local, state, or federal)
- ◯ Manage or work in family business
- ◯ Self-employed in your own business or profession
- ◯ A homemaker/housewife/househusband
- ◯ Go into full-time retirement
- ◯ None of the above

38. When you leave active duty, how likely is it that you will join a National Guard or Reserve unit?

- ◯ Very likely
- ◯ Likely
- ◯ Neither likely nor unlikely
- ◯ Unlikely
- ◯ Very unlikely
- ◯ Does not apply, I am a member of a National Guard or Reserve unit
- ◯ Does not apply, retiring or otherwise ineligible

PLEASE DO NOT WRITE IN THIS AREA

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39. How satisfied are you with each of the following?

	Does not apply	Very dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Very satisfied
A. Basic pay		○	○	○	○	○
B. Special and incentive pay	○	○	○	○	○	○
C. Reenlistment bonus or continuation pay program	○	○	○	○	○	○
D. Housing allowance	○	○	○	○	○	○
E. SEPRATS/COMRATS, subsistence allowance	○	○	○	○	○	○
F. Military housing	○	○	○	○	○	○
G. Medical care for you		○	○	○	○	○
H. Dental care for you		○	○	○	○	○
I. Retirement pay you would get		○	○	○	○	○
J. Cost of living adjustments (COLA) to retirement pay		○	○	○	○	○
K. Other retirement benefits such as medical care and use of base services		○	○	○	○	○
L. Pace of your promotions		○	○	○	○	○
M. Chances for future advancement		○	○	○	○	○
N. Training and professional development		○	○	○	○	○
O. Type of assignments received		○	○	○	○	○
P. Deployments		○	○	○	○	○
Q. Other military duties that take you away from permanent duty station		○	○	○	○	○
R. Availability of equipment, parts, and resources		○	○	○	○	○
S. Level of manning in your unit		○	○	○	○	○
T. Your unit's morale		○	○	○	○	○
U. Your personal workload		○	○	○	○	○
V. Amount of personal/family time you have		○	○	○	○	○
W. Off duty educational opportunities		○	○	○	○	○
X. Quality of leadership		○	○	○	○	○
Y. Military values, lifestyle, and tradition		○	○	○	○	○
Z. Amount of enjoyment from your job		○	○	○	○	○
AA. Frequency of PCS moves		○	○	○	○	○
BB. Job security		○	○	○	○	○
CC. Location or station of choice, homeporting		○	○	○	○	○
DD. Co-location with your military spouse		○	○	○	○	○
EE. Medical care for your family		○	○	○	○	○
FF. Dental care for your family		○	○	○	○	○
GG. Youth activities on base		○	○	○	○	○
HH. Schools for your children		○	○	○	○	○
II. Spouse employment and career opportunities		○	○	○	○	○
JJ. Military family support programs		○	○	○	○	○
KK. Acceptable and affordable childcare		○	○	○	○	○

40. Even if you have no plans to <u>stay</u>, of all the factors listed in Question 39, which is the most important factor for <u>staying or considering staying</u> on active duty?

○ A	○ B	○ C	○ D	○ E	○ F	○ G
○ H	○ I	○ J	○ K	○ L	○ M	○ N
○ O	○ P	○ Q	○ R	○ S	○ T	○ U
○ V	○ W	○ X	○ Y	○ Z	○ AA	○ BB
○ CC	○ DD	○ EE	○ FF	○ GG	○ HH	○ II
○ JJ	○ KK					

41. . . . and which is <u>the next</u> most important factor for <u>staying or considering staying</u> on active duty?

○ A	○ B	○ C	○ D	○ E	○ F	○ G
○ H	○ I	○ J	○ K	○ L	○ M	○ N
○ O	○ P	○ Q	○ R	○ S	○ T	○ U
○ V	○ W	○ X	○ Y	○ Z	○ AA	○ BB
○ CC	○ DD	○ EE	○ FF	○ GG	○ HH	○ II
○ JJ	○ KK	○ None				

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42. Even if you have no plans to leave, of all the factors listed in Question 39, which is the most important factor for leaving or considering leaving active duty?

○ A	○ B	○ C	○ D	○ E	○ F	○ G
○ H	○ I	○ J	○ K	○ L	○ M	○ N
○ O	○ P	○ Q	○ R	○ S	○ T	○ U
○ V	○ W	○ X	○ Y	○ Z	○ AA	○ BB
○ CC	○ DD	○ EE	○ FF	○ GG	○ HH	○ II
○ JJ	○ KK					

43. . . . and which is the next most important factor for leaving or considering leaving active duty?

○ A	○ B	○ C	○ D	○ E	○ F	○ G
○ H	○ I	○ J	○ K	○ L	○ M	○ N
○ O	○ P	○ Q	○ R	○ S	○ T	○ U
○ V	○ W	○ X	○ Y	○ Z	○ AA	○ BB
○ CC	○ DD	○ EE	○ FF	○ GG	○ HH	○ II
○ JJ	○ KK	○ None				

MILITARY LIFE

44. How important should the following factors be in determining total military compensation, including pay, benefits, and allowances?

	Does not apply	Not important	Somewhat important	Moderately important	Important	Very important
a. Job difficulty	○	○	○	○	○	○
b. Job performance	○	○	○	○	○	○
c. Danger	○	○	○	○	○	○
d. Time spent away from home	○	○	○	○	○	○
e. Number of hours worked	○	○	○	○	○	○
f. Level of responsibility	○	○	○	○	○	○
g. Amount of education/training	○	○	○	○	○	○
h. Years of experience	○	○	○	○	○	○
i. Amount civilian employer would pay for this type of work	○	○	○	○	○	○
j. Amount needed to provide for family	○	○	○	○	○	○
k. Cost of living	○	○	○	○	○	○

45. How much do you agree or disagree with the following statements?

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
a. During the past 12 months, the missions I was involved with were important to the national interest	○	○	○	○	○
b. During the past 12 months, most or all of the military duties I performed improved or maintained unit or individual readiness	○	○	○	○	○
c. I would find it rewarding to deploy on a peacekeeping/peacemaking operation (e.g., Bosnia)	○	○	○	○	○
d. I would find it rewarding to deploy on an overseas humanitarian relief effort (e.g., foreign disaster relief such as Nicaragua)	○	○	○	○	○
e. Very little of my experience and training can be directly transferred to a civilian job	○	○	○	○	○
f. It would be easy for me to get a good civilian job if I left the military now	○	○	○	○	○
g. I have a pretty good idea of the kinds of jobs I could get as a civilian	○	○	○	○	○
h. I have a pretty good idea of what pay I could get as a civilian	○	○	○	○	○
i. The benefits available to military personnel and their families have eroded over the past few years	○	○	○	○	○
j. If asked today, I would encourage others to join the military	○	○	○	○	○

46. In general, has your life been better or worse than you expected when you first entered the military?

- ○ Much better
- ○ Somewhat better
- ○ About what you expected
- ○ Somewhat worse
- ○ Much worse
- ○ Don't remember

PLEASE DO NOT WRITE IN THIS AREA

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47. In general, has your work been better or worse than you expected when you first entered the military?

- ◯ Much better
- ◯ Somewhat better
- ◯ About what you expected
- ◯ Somewhat worse
- ◯ Much worse
- ◯ Don't remember

48. During the past 6 months, have you done any of the following to explore the possibility of leaving the military? (MARK ALL THAT APPLY.)

- ◯ Thought seriously about leaving the military
- ◯ Wondered what life might be like as a civilian
- ◯ Discussed leaving and/or civilian opportunities with family members or friends
- ◯ Talked about leaving with my immediate supervisor
- ◯ Gathered information on education programs or colleges
- ◯ Gathered information about civilian job options (e.g., read newpaper ads, attended a job fair)
- ◯ Attended a program that helps people prepare for civilian employment
- ◯ Prepared a resume
- ◯ Applied for a job
- ◯ Interviewed for a job
- ◯ None of the above

49. How do your opportunities in the military compare to opportunities you would have in the civilian world?

	Much better as a civilian	Somewhat better as a civilian	No difference	Somewhat better in the military	Much better in the military	Don't know
a. Promotion opportunities	◯	◯	◯	◯	◯	◯
b. Amount of personal/family time	◯	◯	◯	◯	◯	◯
c. Hours worked per week	◯	◯	◯	◯	◯	◯
d. Vacation time	◯	◯	◯	◯	◯	◯
e. Education and training opportunities	◯	◯	◯	◯	◯	◯
f. Total compensation (pay, bonuses, allowances)	◯	◯	◯	◯	◯	◯
g. Health care benefits	◯	◯	◯	◯	◯	◯
h. Retirement benefits	◯	◯	◯	◯	◯	◯
i. Sense of accomplishment/pride	◯	◯	◯	◯	◯	◯
j. General quality of life	◯	◯	◯	◯	◯	◯

50. How much do you agree or disagree with the following statements?

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
a. Most of my friends belong to the military community	◯	◯	◯	◯	◯
b. The military community is there for me when I need it	◯	◯	◯	◯	◯
c. I have a lot in common with the civilian community	◯	◯	◯	◯	◯
d. Members of the military community sometimes turn to me for help or support	◯	◯	◯	◯	◯
e. Living on base helps active duty members and their families make ends meet	◯	◯	◯	◯	◯
f. I talk up my Service to my friends as a great organization to be a part of	◯	◯	◯	◯	◯
g. There is not much to be gained for me by sticking with a military career.	◯	◯	◯	◯	◯
h. I am proud to be a member of my Service	◯	◯	◯	◯	◯
i. I find that my values and the values of my Service are very similar	◯	◯	◯	◯	◯
j. Being a member of my Service inspires me to do the best job I can	◯	◯	◯	◯	◯
k. I would turn down another job for more pay in order to remain in my Service	◯	◯	◯	◯	◯
l. My Service's evaluation/selection system is effective in promoting its best members	◯	◯	◯	◯	◯
m. If I stay in the Service, I will be promoted as high as my ability and effort warrant	◯	◯	◯	◯	◯

51. Now, taking all things together, how satisfied are you with the military way of life?

- ◯ Very satisfied
- ◯ Satisfied
- ◯ Neither satisfied nor dissatisfied
- ◯ Dissatisfied
- ◯ Very dissatisfied

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PROGRAMS AND SERVICES

52. On average during a month, how often do you use the following on base programs, facilities, or services and civilian off base programs, facilities, or services?

For each of these 13 items, mark one response in column A and one response in column B.	A. On Base Program, Facility or Service								B. Civilian Off Base Program, Facility or Service							
	Not available	0 times	1–5 times	6–10 times	11–15 times	16–20 times	21–25 times	26 times or more	Not available	0 times	1–5 times	6–10 times	11–15 times	16–20 times	21–25 times	26 times or more
1. Fitness Center/Gym	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
2. Library services	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
3. Outdoor recreation areas (e.g., campgrounds, picnic areas, beach, stables)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
4. Outdoor recreation equipment rental	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
5. Recreation center (e.g., recreation room, music/TV, game room/amusement machines)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
6. Golf course	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
7. Bowling center	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
8. Recreation lodging/hotel or resorts	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
9. Clubs/dance/night clubs	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
10. Commissary/supermarket/grocery store	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
11. Main exchange/department store	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
12. Social activities for service members (e.g., trips, special events, tournaments)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
13. Auto, crafts and hobby shops	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

53. During the past 12 months, have you used any of the following programs and services? (MARK ONE ANSWER IN EACH ROW.)

	Yes	No
a. Adult continuing education/counseling	○	○
b. Tuition assistance programs for college/higher education	○	○
c. Technical/vocational programs	○	○
d. Basic skills education	○	○

FAMILY INFORMATION

54. What is your marital status?

- ◯ Now married
- ◯ Separated
- ◯ Divorced ⇨ Go to Question 57
- ◯ Widowed ⇨ Go to Question 57
- ◯ Never married ⇨ Go to Question 58

55. Is your spouse currently: (MARK ALL THAT APPLY.)

- ◯ Serving on active duty (not a member of the National Gurard or Reserve)
- ◯ Member of the National Guard or Reserve in a full-time active duty program (AGR, TAR, AR)
- ◯ Other type of National Guard or Reserve member (e.g., drilling unit, IMA, IRR, military technician)
- ◯ Working in a Federal civilian job (full-time)
- ◯ Working in a Federal civilian job (part-time)
- ◯ Working in a civilian job on base (full-time)
- ◯ Working in a civilian job on base (part-time)
- ◯ Working in a civilian job off base (full-time)
- ◯ Working in a civilian job off base (part-time)
- ◯ Managing or working in family business
- ◯ Self-employed in his/her own business or profession
- ◯ Unemployed and looking for work
- ◯ In school
- ◯ Homemaker/housewife/househusband
- ◯ Retired
- ◯ Other (specify):

56. What is the highest degree or level of school that your spouse has completed? (MARK THE ONE ANSWER THAT DESCRIBES THE HIGHEST GRADE OR DEGREE THAT YOUR SPOUSE HAS COMPLETED.)

- ◯ 11th grade or less
- ◯ 12 years of school, no diploma
- ◯ High school graduate—high school diploma or the equivalent (e.g., GED)
- ◯ Some college credit, but less than 1 year
- ◯ 1 or more years of college, but no degree
- ◯ Associate degree (e.g., AA, AS)
- ◯ Bachelor's degree (e.g., BA, AB, BS)
- ◯ Master's, doctoral degree, or professional school degree (e.g., MA/MS/PhD/MD/JD/DVM)

57. How many times have you been divorced?

- ◯ None
- ◯ 1
- ◯ 2
- ◯ 3 or more

For questions in this section, the definition of "child or children" or "other legal dependents" includes anyone in your family, except your spouse, who has or is eligible to have a Uniformed Services identification card (military ID card) or is eligible for military health care benefits and is enrolled in the Defense Enrollment Eligibility Reporting System (DEERS).

58. Do you have a child, children or other legal dependents based on the definition above?

- ◯ Yes
- ◯ No ⇨ Go to Question 73

59. How many children or other legal dependents do you have in each age group? (MARK ONE ANSWER IN EACH ROW.)

Age	None	1	2	3	4	5 or more
a. Under 1 year old	◯	◯	◯	◯	◯	◯
b. 1 year to under 2 years old	◯	◯	◯	◯	◯	◯
c. 2–5 years old	◯	◯	◯	◯	◯	◯
d. 6–13 years old	◯	◯	◯	◯	◯	◯
e. 14–22 years old	◯	◯	◯	◯	◯	◯
f. 23–64 years old	◯	◯	◯	◯	◯	◯
g. 65 years old or older	◯	◯	◯	◯	◯	◯

60. How many children or other legal dependents do you have in each of the following age groups who live on a regular basis with you at your permanent duty station? (MARK ONE ANSWER IN EACH ROW.)

Age	None	1	2	3	4	5 or more
a. Under 1 year old	◯	◯	◯	◯	◯	◯
b. 1 year to under 2 years old	◯	◯	◯	◯	◯	◯
c. 2–5 years old	◯	◯	◯	◯	◯	◯
d. 6–13 years old	◯	◯	◯	◯	◯	◯
e. 14–22 years old	◯	◯	◯	◯	◯	◯
f. 23–64 years old	◯	◯	◯	◯	◯	◯
g. 65 years old or older	◯	◯	◯	◯	◯	◯

61. How many children or other legal dependents do you have in each of the following age groups who live on a regular basis at a different location than your permanent duty station? (MARK ONE ANSWER IN EACH ROW.)

Age	None	1	2	3	4	5 or more
a. Under 1 year old	◯	◯	◯	◯	◯	◯
b. 1 year to under 2 years old	◯	◯	◯	◯	◯	◯
c. 2–5 years old	◯	◯	◯	◯	◯	◯
d. 6–13 years old	◯	◯	◯	◯	◯	◯
e. 14–22 years old	◯	◯	◯	◯	◯	◯
f. 23–64 years old	◯	◯	◯	◯	◯	◯
g. 65 years old or older	◯	◯	◯	◯	◯	◯

PLEASE DO NOT WRITE IN THIS AREA

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62. During the past 12 months, have you routinely used any of the following childcare arrangements? (MARK ALL THAT APPLY.)

- ◯ Not applicable, I have not used any of the following childcare arrangements ⇨ Go to Question 68
- ◯ Child's other parent or stepparent
- ◯ Child's brother or sister (aged 15 or older)
- ◯ Child's brother or sister (under the age of 15)
- ◯ Child's grandparent
- ◯ Other relative
- ◯ Friend or neighbor
- ◯ Sitter, nanny, or au pair
- ◯ Preschool (on base)
- ◯ Preschool (off base)
- ◯ "Child Development Center" (on base)
- ◯ Childcare center/day care center (off base)
- ◯ "Family Childcare Home" (on base)
- ◯ Childcare provider in a home setting (off base)
- ◯ "School-Age Care Program" (on base)
- ◯ After-school program (off base)
- ◯ Federally supported Head Start program
- ◯ None of the above

63. How many of your children routinely use the childcare arrangements marked in Question 62?

- ◯ 1
- ◯ 2
- ◯ 3
- ◯ 4
- ◯ 5 or more

64. What is the total amount that you spent last month on childcare arrangements for all of your children?

- ◯ Does not apply, I spent no money on childcare arrangements last month

MONTHLY CHILDCARE EXPENSE

$ ▪ 0 0

Write your monthly expense in the boxes, then fill in the corresponding circles. For example, if you spent $100 last month, you would enter "0100."

65. During the past 12 months, was there any change in your childcare arrangements for your child or children?

- ◯ Yes
- ◯ No ⇨ Go to Question 68

66. For what reasons did the childcare arrangements change? (MARK ALL THAT APPLY.)

- ◯ Beginning, ending, or changes in a child's school enrollment
- ◯ Beginning, ending, or changes in military assignment
- ◯ Beginning, ending, or changes in spouse's school enrollment
- ◯ Cost
- ◯ Availability or hours of care provider
- ◯ Reliability of care provider
- ◯ Quality of care provided
- ◯ Care provider's location or accessibility
- ◯ Never had any regular arrangement
- ◯ Child outgrew arrangement
- ◯ No longer eligible for assistance
- ◯ Arrangement no longer available
- ◯ Other (specify):

67. During the past 12 months, did you lose any time from your military duties (work, school, or training) due to a change in childcare arrangements?

- ◯ Yes
- ◯ No

68. Do you have a child or children enrolled in school?

- ◯ Yes
- ◯ No ⇨ Go to Question 73

69. What type of school does your youngest school-age child attend?

- ◯ College or university ⇨ Go to Question 73
- ◯ Public school off base
- ◯ Public school on base
- ◯ DoD school for dependents
- ◯ A religion-affiliated school
- ◯ A private day school, not religion-affiliated
- ◯ A private boarding school
- ◯ Home school
- ◯ Other (specify):

70. About how many hours per week does your child usually spend in school? (If you have more than one child, answer for the youngest school-age child.)

HOURS PER WEEK

Write the number of hours in the boxes, then fill in the corresponding circles.

71. For the type of school you marked in Question 69, please rate the following.

	NA/DK = Not applicable or don't know	E = Fail	D = Poor	C = Satisfactory	B = Good	A = Excellent
a. Overall academic program	○	○	○	○	○	○
b. Support services provided by the school	○	○	○	○	○	○
c. Special education programs	○	○	○	○	○	○
d. Physical plant (building, school grounds, heating/cooling, food service, etc.)	○	○	○	○	○	○
e. Availability of extracurricular activities	○	○	○	○	○	○
f. Safety of school	○	○	○	○	○	○
g. Overall quality of the school	○	○	○	○	○	○

72. Have you participated in, or have you been involved with, the following activities related to your child's or children's education? (MARK ALL THAT APPLY.)

- ○ Attending conferences or meetings with teachers regarding the school
- ○ Working with teachers to promote achievement
- ○ Collaborating on educational opportunities for students, parents, and teachers
- ○ Planning and implementing curricular and extracurricular activities
- ○ Participating in decision making and problem solving to promote learning
- ○ None of the above

73. Do you have a child, spouse, or other legal dependent enrolled in the Exceptional Family Member Program (EFMP) or the Coast Guard Special Needs Program?

- ○ Yes
- ○ No

74. Do you have caregiver responsibilities for an elderly family member (shopping, home maintenance, transportation, checking on them by phone, finances, arrangements for care, etc.)? (This includes persons who live with you or live somewhere else.)

- ○ Yes
- ○ No ⇨ Go to Question 77

75. How many elderly family members do you have caregiver responsibilities for?

- ○ One
- ○ Two
- ○ Three or more

76. During the <u>past 12 months</u>, did you lose <u>any</u> time from your military duties due to eldercare responsibilities?

- ○ Yes
- ○ No

77. How satisfied or dissatisfied are you with each of the following aspects of military health care for your family?

- ○ Does not apply, I do not have any family members eligible to receive military health care ⇨ Go to Question 78

	Very dissatisfied	Dissatisfied	Neither satisfied nor dissatisfied	Satisfied	Very satisfied
a. My out-of-pocket cost for care	○	○	○	○	○
b. Skill of physicians and other medical providers	○	○	○	○	○
c. Availability of specialists	○	○	○	○	○
d. Ability to get appointments	○	○	○	○	○
e. Waiting time in the clinic	○	○	○	○	○
f. Overall quality of care	○	○	○	○	○
g. Administrative requirements (claims, paperwork, approvals, etc.)	○	○	○	○	○

78. In the last month, did you perform any non-military volunteer work?

- ○ Yes ⇨ Go to Question 80
- ○ No

79. What were your reasons for not volunteering? (MARK ALL THAT APPLY.)

- ○ I was not asked to perform volunteer work
- ○ I did not have time for volunteer work
- ○ I did not have access to childcare so I could perform volunteer work
- ○ I am not interested in volunteer work
- ○ I did not have transportation
- ○ None of the above

PLEASE DO NOT WRITE IN THIS AREA

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80. How is your general outlook about your life?

- ◯ Very optimistic
- ◯ Optimistic
- ◯ Neither optimistic nor pessimistic
- ◯ Pessimistic
- ◯ Very pessimistic

81. Are you accompanied by family members (spouse, child, or other legal dependents) at your permanent duty station?

- ◯ Yes ⇨ Go to Question 83
- ◯ No

82. Why didn't your family members accompany you to your permanent duty station? (MARK ALL THAT APPLY.)

- ◯ Does not apply, I have no family members
- ◯ Legal separation or divorce from spouse
- ◯ Temporarily unaccompanied (family members will join me later)
- ◯ Permanently unaccompanied because it was required for the authorization/billet
- ◯ Permanently unaccompanied because family members were not command sponsored (overseas tour)
- ◯ Permanently unaccompanied because household goods move was not authorized with PCS orders
- ◯ Spouse's career
- ◯ Spouse's education
- ◯ Child's/children's education
- ◯ Health or illness of family member
- ◯ Eldercare responsibilities
- ◯ Other (specify):

83. During your active duty career, how many times did <u>your family members</u> move to a new location because of your permanent change of station (PCS)?

- ◯ None
- ◯ 1
- ◯ 2
- ◯ 3
- ◯ 4
- ◯ 5
- ◯ 6
- ◯ 7
- ◯ 8
- ◯ 9
- ◯ 10 or more

84. Have any of your relatives ever served on active military duty? (MARK ALL THAT APPLY.)

- ◯ Parent or guardian
- ◯ Spouse
- ◯ Brother or sister
- ◯ Son or daughter
- ◯ Grandparent
- ◯ Uncle or aunt
- ◯ Cousin
- ◯ Other close relative
- ◯ None of my relatives have served on active duty

ECONOMIC ISSUES

The questions in this section address economic issues in the lives of military members and their families. The information will be used to better understand the economic and financial concerns of military members and their families. Although people will have different views on what is or is not personal, many people will consider some of the questions very personal. Please continue with the survey even if there are some questions that you want to skip.

85. During your off-duty time, do you currently hold a second job or work at your own business?

- ◯ Yes
- ◯ No ⇨ Go to Question 87

86. On average, how many hours a week do you spend working at a civilian job or working at your own business during your off-duty hours?

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

HOURS PER WEEK

For example, if you worked 8 hours, enter "08" in the boxes and fill in the corresponding circles.

87. During the <u>past 12 months</u>, did you (and your spouse) receive any income or financial support from the following sources? (MARK ALL THAT APPLY.)

- ◯ A second job
- ◯ Alimony
- ◯ Child support
- ◯ Supplemental Security Income (SSI)
- ◯ Unemployment or Worker's compensation
- ◯ State-funded childcare assistance
- ◯ Women, Infants, and Children (WIC)
- ◯ Food Stamp Program
- ◯ Head Start Program
- ◯ Aid to Families with Dependent Children (AFDC)
- ◯ Medicaid
- ◯ Other (specify):

88. **What is your total monthly gross (before-tax) household income from all sources? (Please include your military earnings, your earnings from a second job, your spouse's earnings, and income or financial support from any other source.)**

- ◯ $1–1,000
- ◯ $1,001–2,000
- ◯ $2,001–3,000
- ◯ $3,001–4,000
- ◯ $4,001–5,000
- ◯ $5,001–6,000
- ◯ $6,001–7,000
- ◯ $7,001–8,000
- ◯ $8,001–9,000
- ◯ $9,001–10,000
- ◯ $10,001 and above

89. **Roughly, what is the total amount of savings you (and your spouse) have? (Please include funds in bank accounts, IRAs, money market accounts, Certificates of Deposit (CDs), Savings Bonds, mutual funds, stocks and/or bonds.)**

- ◯ $0
- ◯ $1–1,000
- ◯ $1,001–2,500
- ◯ $2,501–5,000
- ◯ $5,001–7,500
- ◯ $7,501–10,000
- ◯ $10,001–12,500
- ◯ $12,501–15,000
- ◯ $15,001–17,500
- ◯ $17,501–20,000
- ◯ $20,001–50,000
- ◯ $50,001–100,000
- ◯ $100,001 and above

90. **Do you (or your spouse) pay child support?**

- ◯ Yes, I pay child support
- ◯ Yes, my spouse pays child support
- ◯ Yes, both my spouse and I pay child support
- ◯ No

91. **What is the total amount you (and your spouse) paid last month for rent or mortgage?**

- ◯ $0
- ◯ $1–400
- ◯ $401–800
- ◯ $801–1,200
- ◯ $1,201–1,600
- ◯ $1,601–2,000
- ◯ $2,001 and above

92. **What is the total amount you (and your spouse) paid last month for all car loans and leases on cars, trucks, or motorcycles?**

- ◯ $0
- ◯ $1–250
- ◯ $251–500
- ◯ $501–750
- ◯ $751–1,000
- ◯ $1,001–1,250
- ◯ $1,251–1,500
- ◯ $1,501 and above

93. **What is the amount of payments that you (and your spouse) made last month to cover personal unsecured debt? (Include all credit cards, debt consolidation loans, AAFES loans, NEXCOM loans, student loans, and other personal loans; exclude home mortgage and car loans.)**

- ◯ $0
- ◯ $1–150
- ◯ $151–300
- ◯ $301–450
- ◯ $451–600
- ◯ $601–750
- ◯ $751–900
- ◯ $901–1,050
- ◯ $1,051 and above

94. **After the last payment was made on personal unsecured debt, what was the total amount you (and your spouse) still owed? (Include all credit cards, debt consolidation loans, AAFES loans, NEXCOM loans, student loans, and other personal loans; exclude home mortgage and car loans.)**

- ◯ $0
- ◯ $1–1,000
- ◯ $1,001–2,500
- ◯ $2,501–5,000
- ◯ $5,001–7,500
- ◯ $7,501–10,000
- ◯ $10,001–12,500
- ◯ $12,501–15,000
- ◯ $15,001–17,500
- ◯ $17,501–20,000
- ◯ $20,001 and above

95. **Which of the following best describes the financial condition of you (and your spouse)?**

- ◯ Very comfortable and secure
- ◯ Able to make ends meet without much difficulty
- ◯ Occasionally have some difficulty making ends meet
- ◯ Tough to make ends meet but keeping your head above water
- ◯ In over your head

PLEASE DO NOT WRITE IN THIS AREA

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96. In the past 12 months, did any of the following happen to you (and your spouse)? (MARK ALL THAT APPLY.)

- ◯ Bounced two or more checks
- ◯ Received a letter of indebtedness (e.g., a letter from a lender to your commanding officer that payment is late)
- ◯ Had your wages garnished
- ◯ Fell behind in paying your rent or mortgage
- ◯ Fell behind in paying your credit card, AAFES, or NEXCOM account
- ◯ Was pressured to pay bills by stores, creditors, or bill collectors
- ◯ Had a bill collector contact your unit leader
- ◯ Pawned or sold valuables to make ends meet
- ◯ Borrowed money from friends or relatives to help you with a financial difficulty
- ◯ Borrowed money through an Emergency Loan Assistance Program or a Service Aid Society
- ◯ Had your utilities (telephone, cable, water, heat or electricity) shut off
- ◯ Had a car, household appliances, or furniture repossessed
- ◯ Was unable to afford needed medical care
- ◯ Went bankrupt (declared personal bankruptcy)
- ◯ None of the above

A Thrift Savings Plan (TSP) is a tax-deferred retirement savings plan like a 401(k) plan.

- **Employees may deposit a portion of their pay (typically up to 5 or 10 percent) before taxes into a long-term fund to provide savings for retirement.**
- **Employers may match none, some, or all of their employees' contributions.**
- **A wide range of investment options is generally available, including funds that follow the stock and bond markets.**
- **TSP funds may be taken to another employer or rolled over into other qualified retirement savings plans.**
- **Funds may begin to be withdrawn at around age 59½—earlier withdrawals are usually penalized.**

97. If this type of plan were made available to you, how likely would you be to participate in each of the following situations?

	Very unlikely	Unlikely	Neither likely nor unlikely	Likely	Very likely
a. If there were no government matching	◯	◯	◯	◯	◯
b. If the government matched your contribution up to 5% of pay	◯	◯	◯	◯	◯
c. If you could invest any reenlistment or continuation bonus into the fund tax-deferred	◯	◯	◯	◯	◯

98. Which, if any, of the following is your main concern about the military retirement system?

- ◯ Does not apply, I have no concerns
- ◯ No pension benefits are earned unless you serve at least 20 years
- ◯ No ability to save toward retirement with a 401(k) or other retirement savings program
- ◯ The government does not match any money you put away for retirement
- ◯ You cannot transfer your retirement benefits to another employer
- ◯ Other

99. Currently, military personnel do not qualify for retirement benefits unless they serve for at least 20 years. If the system were changed so that you became eligible after at least 10 years of service for a deferred pension payable at age 62, how much influence would this have on your willingness to stay in the military until at least the 10-year point?

- ◯ Does not apply, I have already served 10 years
- ◯ Does not apply, I already intend to stay
- ◯ Little or no influence
- ◯ Some influence
- ◯ Moderate influence
- ◯ Strong influence

100. Congress is considering a proposal to modify the retirement pay formula for those who entered the service on or after August 1, 1986 to the same formula that applied to those who entered before that date. Assuming the retirement pay formula were changed, how much influence would this have on your willingness to stay in the military?

- ◯ This would not affect me since I entered the service before August 1, 1986
- ◯ Does not apply, I already intend to stay
- ◯ Little or no influence
- ◯ Some influence
- ◯ Moderate influence
- ◯ Strong influence

BACKGROUND INFORMATION

101. Are you:

- ◯ Male
- ◯ Female

102. Is English a second language for you?

- ◯ Yes
- ◯ No

103. Are you Spanish/Hispanic/Latino? (MARK "No" IF NOT SPANISH/HISPANIC/LATINO.)

- ◯ No, not Spanish/Hispanic/Latino
- ◯ Yes, Mexican, Mexican American, Chicano
- ◯ Yes, Puerto Rican
- ◯ Yes, Cuban
- ◯ Yes, other Spanish/Hispanic/Latino

104. What is your race? (MARK ONE OR MORE RACES TO INDICATE WHAT YOU CONSIDER YOURSELF TO BE.)

- ◯ White
- ◯ Black or African-American
- ◯ American Indian or Alaska Native
- ◯ Asian (e.g., Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese)
- ◯ Native Hawaiian or other Pacific Islander (e.g., Samoan, Guamanian, or Chamorro)
- ◯ Some other race (specify):

105. At the time you first came on active duty, how much education had you completed? (MARK THE ONE ANSWER THAT DESCRIBES THE HIGHEST GRADE OR DEGREE THAT YOU HAD COMPLETED.)

- ◯ 11th grade or less
- ◯ 12 years of school, no diploma
- ◯ High school graduate—high school diploma or the equivalent (e.g., GED)
- ◯ Some college credit, but less than 1 year
- ◯ 1 or more years of college, but no degree
- ◯ Associate degree (e.g., AA, AS)
- ◯ Bachelor's degree (e.g., BA, AB, BS)
- ◯ Master's, doctoral degree, or professional school degree (e.g., MA/MS/PhD/MD/JD/DVM)

106. What is the highest degree or level of school that you have completed? (MARK THE ONE ANSWER THAT DESCRIBES THE HIGHEST GRADE OR DEGREE THAT YOU HAVE COMPLETED.)

- ◯ 11th grade or less
- ◯ 12 years of school, no diploma
- ◯ High school graduate—high school diploma or the equivalent (e.g., GED)
- ◯ Some college credit, but less than 1 year
- ◯ 1 or more years of college, but no degree
- ◯ Associate degree (e.g., AA, AS)
- ◯ Bachelor's degree (e.g., BA, AB, BS)
- ◯ Master's, doctoral degree, or professional school degree (e.g., MA/MS/PhD/MD/JD/DVM)

107. Are you currently serving on active duty and/or in the Guard/Reserve?

- ◯ Yes, serving on active duty (not a member of the Guard/Reserve)
- ◯ Yes, a member of the Guard/Reserve in a full-time active duty program (AGR, TAR, AR)
- ◯ Yes, other type of Guard/Reserve member (e.g., drilling unit, IMA, IRR, military technician)
- ◯ No ⇨ Go to Question 110

108. In what Service are you?

- ◯ Army
- ◯ Navy
- ◯ Marine Corps
- ◯ Air Force
- ◯ Coast Guard

109. What is your current paygrade?

◯ E-1	◯ W-1	◯ O-1
◯ E-2	◯ W-2	◯ O-2
◯ E-3	◯ W-3	◯ O-3
◯ E-4	◯ W-4	◯ O-4
◯ E-5	◯ W-5	◯ O-5
◯ E-6		◯ O-6 or above
◯ E-7		
◯ E-8		
◯ E-9		

110. How many years of active duty service have you completed?

0	0
1	1
2	2
3	3
4	4
5	5
	6
	7
	8
	9

YEARS

For example, if you have completed 3 years of service, you would enter "03." To indicate less than 1 year, enter "00."

111. What date did you complete this survey?

DATE

MONTH	DAY		YEAR
◯ January			◯ 1999
◯ February			◯ 2000
◯ March	0	0	
◯ April	1	1	
◯ May	2	2	
◯ June	3	3	
◯ July		4	
◯ August		5	
◯ September		6	
◯ October		7	
◯ November		8	
◯ December		9	

PLEASE DO NOT WRITE IN THIS AREA

SERIAL #

COMMENTS

112. If you have comments or concerns that you were not able to express in answering this survey, please write them in the space provided. If your comments relate to specific questions on this survey, please make a note of the question number beside your comment.

- PLEASE RETURN YOUR COMPLETED SURVEY IN THE BUSINESS REPLY ENVELOPE.
- IF YOU ARE RETURNING THE SURVEY FROM ANOTHER COUNTRY, BE SURE TO RETURN THE BUSINESS REPLY ENVELOPE THROUGH A U.S. GOVERNMENT MAIL ROOM OR POST OFFICE.
- FOREIGN POSTAL SYSTEMS WILL NOT DELIVER BUSINESS REPLY MAIL.

THANK YOU FOR YOUR TIME AND ASSISTANCE

BARCODE

PLEASE DO NOT WRITE IN THE AREA BELOW

SERIAL #

Appendix B

Survey Cover Letters Sent to Potential Respondents

UNDER SECRETARY OF DEFENSE
4000 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-4000

August 27, 1999

PERSONNEL AND
READINESS

#BWNFXVD **********5-DIGIT 77777
#15 000000001 1#
CW03 THOMAS H SAMPLE USMC
1234 ANY STREET
ANYTOWN MN 77777-7777

Dear Chief Warrant Officer Sample:

You have been selected to participate in the "1999 Survey of Active-Duty Personnel." This survey will provide important information about attitudes and perceptions of the military working environment and quality of life. The data will also assist the Department of Defense in improving key policies and programs that benefit active-duty military personnel like yourself.

Your survey will arrive in the mail in a few weeks. I ask your cooperation in reviewing and responding to this survey. Your prompt response will ensure that your opinions are reflected in the final survey findings. Please be assured that your survey answers will be kept confidential. Your answers will be combined with all other responses received, and only group statistics will be reported.

If the address on this mailing is incorrect or if your address will change soon, please take a moment to inform the Survey Processing Center of the correct address. You may register your new address by calling the Survey Processing Center toll-free at 1-800-296-7652 (within the US) or collect at 612-945-7353 (outside the US). You may also send your changes via electronic mail to *activeduty@datarecognitioncorp.com* or facsimile to 612-945-7950. Please be sure to include your name, new address and the number printed on the lower right hand corner of this letter. You may also mark the address changes on this letter and mail it to Defense Manpower Data Center, Attn: Survey Processing Center, Data Recognition Corporation, 5900 Baker Road, Minnetonka, MN 55345-5967.

Thank you for your time and assistance in this important effort.

Sincerely,

Rudy de Leon
Under Secretary of Defense
Personnel and Readiness

UNDER SECRETARY OF DEFENSE
4000 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-4000

September 17, 1999

PERSONNEL AND
READINESS

#BWNFXVD **********5-DIGIT 77777
#15 000585126 6#
CW03 THOMAS H SAMPLE USMC
1234 ANY STREET
ANYTOWN MN 77777-7777

Dear Chief Warrant Officer Sample:

The Department of Defense is seeking your help in gathering important information about attitudes and perceptions on the military working environment and quality of life. You were randomly selected to participate in the "1999 Survey of Active-Duty Personnel." A copy of this survey is attached. The information you provide will assist in improving policies and programs that benefit active-duty military personnel like yourself.

Completing this questionnaire should take about 30 minutes. I encourage you to provide frank responses to the survey questions, and assure you that your responses will be kept confidential. Only group statistics will be reported in the survey findings. Obviously, while the survey process is underway, survey administrators must know your identity in order to provide you with the survey materials. This information is used only in administering the survey. No information about an individual will be released.

Thank you for your time and cooperation in completing this survey. Please return it at your earliest convenience in the enclosed postage-paid envelope.

Sincerely,

Rudy de Leon
Under Secretary of Defense
Personnel and Readiness

Enclosures:
As stated

UNDER SECRETARY OF DEFENSE
4000 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-4000

September 28, 1999

PERSONNEL AND
READINESS

#BWNFXVD **********5-DIGIT 77777
#15 000000021 1#
CW03 THOMAS H SAMPLE USMC
1234 ANY STREET
ANYTOWN MN 77777-7777

Dear Chief Warrant Officer Sample:

Recently you were mailed the "1999 Survey of Active-Duty Personnel." I want to emphasize two things about this survey.

First and foremost, this survey will assist in improving policies and programs that benefit you, as an active-duty military member. Thus, results of this survey will influence decisions directly affecting all active-duty military personnel.

The second point is that your participation in this survey is very crucial. Every member will not receive a questionnaire; therefore, your answers will represent the views of many other service members.

You may have already completed and returned your survey. If so, thank you for your participation. If not, please complete the survey and return it in the postage-paid envelope that was provided. Your responses will be held in strictest confidence.

If you have not received a copy of the survey, please take a moment to inform the Survey Processing Center of your correct address. You may register your new address by calling the Survey Processing Center toll-free at 1-800-296-7652 (within the US) or collect at 612-945-7353 (outside the US). You may also send your changes via electronic mail to *activeduty@datarecognitioncorp.com* or facsimile to 612-945-7950. Please be sure to include your name, new address and the number printed on the lower right hand corner of this letter. You may also mark the address changes on this letter and mail it to Defense Manpower Data Center, Attn: Survey Processing Center, Data Recognition Corporation, 5900 Baker Road, Minnetonka, MN 55345-5967. I appreciate your time and cooperation.

Sincerely,

Rudy de Leon
Under Secretary of Defense
Personnel and Readiness

UNDER SECRETARY OF DEFENSE
4000 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-4000

PERSONNEL AND
READINESS

October 12, 1999

#BWNFXVD **********5-DIGIT 77777
#15 000585146 6#
CW03 THOMAS H SAMPLE USMC
1234 ANY STREET
ANYTOWN MN 77777-7777

Dear Chief Warrant Officer Sample:

Several weeks ago, you were asked to participate in the "1999 Survey of Active-Duty Personnel." When this letter was prepared, we had not yet received your completed survey.

Your participation in this survey is very important. The survey results will assist the Department of Defense to improve policies and programs that benefit active-duty military personnel. This is your opportunity to provide information regarding concerns that directly impact you, as well as other active-duty military members.

A duplicate survey is enclosed in case you misplaced your original questionnaire. If you have already completed and returned your questionnaire, please discard the duplicate survey and accept my thanks. If you have not completed the survey, please fill out the questionnaire and return it in the enclosed postage-paid envelope.

Your time and cooperation are appreciated.

Sincerely,

Rudy de Leon
Under Secretary of Defense
Personnel and Readiness

Enclosures:
As stated

UNDER SECRETARY OF DEFENSE
4000 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-4000

October 27, 1999

PERSONNEL AND
READINESS

#BWNFXVD **********5-DIGIT 77777
#15 000585166 6#
CW03 THOMAS H SAMPLE USMC
1234 ANY STREET
ANYTOWN MN 77777-7777

Dear Chief Warrant Officer Sample:

Recently you were asked to participate in the "1999 Survey of Active-Duty Personnel." Your completed questionnaire had not been received by the Survey Processing Center at the time this letter was mailed. Because your views and opinions are important, I urge you to take this final opportunity to provide your inputs to this survey.

The survey findings will be reported and used in the formulation of policy; therefore, I want them to represent accurately the opinions and attitudes of the entire military force. The sample was scientifically selected in such a way to ensure this representation, but the success of this method is dependent on you, and others like you, who are willing to complete and return the questionnaire.

If you have not already done so, please take the time to complete the questionnaire and return it in the postage-paid envelope. For your views to be included in the survey results, your questionnaire must be received within the next three weeks.

Thank you for your participation.

Sincerely,

Rudy de Leon
Under Secretary of Defense
Personnel and Readiness

Enclosures:
As stated

UNDER SECRETARY OF DEFENSE
4000 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-4000

PERSONNEL AND
READINESS

December 20, 1999

#BWNFXVD **********3-DIGIT 234
#15 000703665 3#
PO02 JASON EARL RACE USN
853 SEDLEY RD
VIRGINIA BEACH VA 23462-7031

Dear Petty Officer Race:

Recently you were asked to participate in the "1999 Survey of Active-Duty Personnel." Your completed questionnaire had not been received by the Survey Processing Center at the time this letter was mailed. Because your views and opinions are important, I urge you to take this final opportunity to provide your inputs to this survey.

The survey findings will be reported and used in the formulation of policy; therefore, I want them to represent accurately the opinions and attitudes of the entire military force. The sample was scientifically selected in such a way to ensure this representation, but the success of this method is dependent on you, and others like you, who are willing to complete and return the questionnaire.

If you have not already done so, please take the time to complete the questionnaire and return it in the postage-paid envelope. For your views to be included in the survey results, your questionnaire must be received within the next three weeks.

Thank you for your participation.

Sincerely,

Rudy de Leon
Under Secretary of Defense
Personnel and Readiness

Enclosures:
As stated

Appendix C

Annotated 1999 Survey of Active Duty Personnel

The survey reproduced in this appendix is based on the version of the questionnaire used in the final pretests. It has all of the text and layout of the actual survey, but does not have the final formatting of the printed questionnaire. The final printed questionnaire is reproduced in Appendix A.

The annotations in this appendix were not printed on the survey forms used in the pretests. Annotations appear either above the item number or in the boxes used for write-in answers. These annotations provide three kinds of information.

First the annotations show the variable name(s) used in the dataset for the item and whether the variable is public release or confidential. Where more than one variable was required for an item, multiple variables are listed without being enclosed in parentheses Multiple part items will show a range of variable names. For example, the annotation of "M9920A-M9920C" for item 20 indicates that three variables, M9920A, M9920B, and M9920C, were generated. An asterisk is used to indicate a variable that appears only on the confidential file. Public-release versions of these confidential variables are not shown in the annotations in this appendix but are listed in the Variables Constructed for Analysis section of Appendix F.

The second annotation on some items indicates that the same or similar item appeared on the *1992 DoD Surveys of Officers and Enlisted Personnel* (Westat, 1994). These annotations are enclosed in parentheses and show the question number from these surveys.

The third annotation on some items is a coding Note. These Notes are part of the coding scheme (Appendix D) that discusses complex coding rules for the generation of the values for certain variables.

RCS # DD-P&R(OT)2072
Expiration: 3/3/2000
09/07/2000 10:04 AM

1999 Survey of Active Duty Personnel

Form A

Version
Form A (Annotated)

Department of Defense seal

Army seal

Navy seal

Marine Corps seal

Air Force seal

Coast Guard seal

DEFENSE MANPOWER DATA CENTER
ATTN: SURVEY PROCESSING CENTER
DATA RECOGNITION CORPORATION
5900 BAKER ROAD
MINNETONKA, MINNESOTA 55345-5967

DMDC Survey No. 99-0001

PRIVACY NOTICE

In accordance with the Privacy Act of 1974 (Public Law 93-579), this notice informs you of the purpose of the survey and how the findings will be used. Please read it carefully.

AUTHORITY: 10 U.S.C. 136, 10 U.S.C. 1782 and 10 U.S.C. 2358

PRINCIPAL PURPOSE: Information collected in this survey will be used to assess attitudes and perceptions of military life. This information will assist in the formulation of policies which may be needed to improve the military working environment and relevant personnel policies.

ROUTINE USES: Reports will be provided to the Secretaries of Defense and Transportation, and each Military Service. Findings will be used in reports and provided to Congress. Some findings may be published by the Defense Manpower Data Center (DMDC) or professional journals, or reported in manuscripts presented at conferences, symposia, and scientific meetings. In no case will the data be reported or used for identifiable individual(s).

DISCLOSURE: Providing information on this survey is voluntary. There is no penalty if you choose not to respond. However, maximum participation is encouraged so that the data will be complete and representative. Your survey instrument will be treated as confidential. Identifying information will be used only by persons engaged in, and for the purposes of, the survey. Only group statistics will be reported.

(Put this text on a pencil graphic and use to divide text above from the following instructions)
USE NO. 2 PENCIL ONLY

THIS IS NOT A TEST, SO TAKE YOUR TIME.

SELECT ANSWERS THAT BEST FIT YOU.

MARK ONLY ONE ANSWER FOR EACH QUESTION
UNLESS THE QUESTION SAYS TO MARK ALL THAT APPLY.

- **MAKE HEAVY BLACK MARKS THAT FILL THE RESPONSE CIRCLES.**
- **DO NOT MAKE ANY MARKS OUTSIDE OF THE RESPONSE CIRCLES OR WRITE-IN BOXES.**
- **IF YOU CHANGE YOUR MIND, ERASE OLD MARKS COMPLETELY.**
- **DO NOT USE INK, BALL-POINT, OR FELT TIP PENS.**

RIGHT MARK **WRONG MARKS**

ASSIGNMENT INFORMATION

M9901 (O013/E013)

1. During the past 12 months, how many hours per week did you usually work?

1 O 40 hours or less
2 O 41-50 hours
3 O 51-60 hours
4 O 61-70 hours
5 O 71-80 hours
6 O 81 hours or more

M9902

2. During your last full workweek, how many hours did you work?

1 O 40 hours or less
2 O 41-50 hours
3 O 51-60 hours
4 O 61-70 hours
5 O 71-80 hours
6 O 81 hours or more

M9903A-M9903P/ Coding Note 36

3. When you have had to work more hours than usual during the past 12 months, what were the primary reasons? (MARK ALL THAT APPLY.)

A O Not applicable
B O Mission critical requirements
C O Mission preparation/training/maintenance
D O Tasked with additional duties (e.g., special projects)
E O Unit was getting ready for deployment
F O Manning not sufficient for workload (i.e., not enough authorizations/billets)
G O Unit was under-manned (i.e., authorizations/billets not filled)
H O Part of unit was deployed
I O Demanding supervisor
J O Problems involving subordinates
K O High workload
L O Poor planning or lack of planning
M O Others were not carrying their workload
N O Inspections and inspection preparation
O O Equipment failure and repairs
P O None of the above

M9904* (O002/E002)

4. Are you currently assigned to ship or shore duty?

1 O Ship
2 O Shore
60 O Does not apply, I do not have a ship/shore rotation

In this survey, "permanent duty station" is considered your permanent post, base, port, or other duty location, such as, a recruiting station.

M9905* (Comment)

5. Where is your permanent duty station located?

1 O In one of the 50 States or the District of Columbia
2 O In American Samoa, Guam, U.S. Virgin Islands or Puerto Rico
3 O Overseas

M9906* / Coding Note 1

6. Are you currently on a deployment that will keep you away from home for at least 30 consecutive days?

1 O Yes
2 O No →Go to Question 8 M9906SK

M9907*

7. Where are you currently deployed?

1 O In one of the 50 States or the District of Columbia
2 O In American Samoa, Guam, U.S. Virgin Islands or Puerto Rico
3 O Overseas
4 O Afloat at sea

M9908 (O014/E014)

8. Where do you live at your permanent duty station?

1 O Aboard ship
2 O Barracks/dorm (including BEQ or BOQ)
3 O Geographic bachelor's barracks
4 O Military family housing, on base
5 O Military family housing, off base
6 O Civilian housing that I own or pay mortgage on
7 O Military or civilian housing that I rent, off base
8 O Other

M9909A-M9909I (O015/E015)

9. How satisfied are you with the following characteristics of your current residence and community at your permanent duty station?

	5 Very dissatisfied	4 Dissatisfied	3 Neither satisfied nor dissatisfied	2 Satisfied	1 Very satisfied
a. Cost of residence	O	O	O	O	O
b. Quality and condition of residence	O	O	O	O	O
c. Amount of livable space in residence	O	O	O	O	O
d. Privacy of residence	O	O	O	O	O
e. Quality of housing in the area where you live	O	O	O	O	O
f. Safety of the area where you live	O	O	O	O	O
g. Distance to workplace	O	O	O	O	O
h. Distance to shopping areas	O	O	O	O	O
i. Distance to recreation areas	O	O	O	O	O

M9910A-M9910R/ Coding Note 36

10. Why did you choose your current residence at your permanent duty station? (MARK ALL THAT APPLY.)

A O I had no choice in my residence
B O Best value for the money
C O Safety and security
D O Close to workplace
E O Close to base facilities, services or programs
F O Spouse's choice
G O Better schools
H O Fewer rules
I O Privacy
J O Wanted to live in a specific area or community
K O Available right away
L O Military housing was unavailable
M O Civilian housing was unavailable
N O Better than available military housing (on base or off base)
O O Better than available civilian housing
P O Wanted military neighbors
Q O Wanted civilian neighbors
R O Other

M9911

11. If your cost to live in civilian or military housing at your permanent duty station were the same, where would you prefer to live?

1 O Military housing, on base
2 O Military operated housing, off base
3 O Civilian housing

M9912 (O018/E018) / Coding Note 2

12. During your active duty career, how many permanent changes of station (PCSs) have you made? (INCLUDE PCS FOR A REMOTE OR UNACCOMPANIED TOUR.)

61 O Does not apply, I have not yet received my first assignment →Go to Question 14 M9912SK

1 O 1	6 O 6
2 O 2	7 O 7
3 O 3	8 O 8
4 O 4	9 O 9
5 O 5	10 O 10 or more

M9913A-M9913Z (O012/E012)

13. For your most recent PCS move, were any of the following a problem? (ANSWER EVEN IF THIS IS YOUR FIRST ASSIGNMENT.)

	-6- Does not apply	4- Not a problem	3- Slight problem	2- Somewhat of a problem	1- Serious problem
a. Change in PCS orders (report date or destination)	O	O	O	O	O
b. Hours and location of offices providing PCS assistance	O	O	O	O	O
c. Waiting for permanent housing to become available	O	O	O	O	O
d. Selling or renting out your former residence	O	O	O	O	O
e. Purchasing or renting your current residence	O	O	O	O	O
f. Amount of time to prepare for move	O	O	O	O	O
g. Shipping/storing household goods	O	O	O	O	O
h. TAD/TDY en route	O	O	O	O	O
i. Temporary lodging expenses	O	O	O	O	O
j. Costs related to security deposit(s)	O	O	O	O	O
k. Cost of moving pets	O	O	O	O	O
l. Cost of moving vehicles	O	O	O	O	O
m. Costs of setting up new residence (e.g., curtains, carpeting, painting).	O	O	O	O	O
n. Settling damage claims	O	O	O	O	O
o. Non-reimbursed transportation costs incurred during the move	O	O	O	O	O
p. Timeliness of reimbursements	O	O	O	O	O
q. Accuracy of reimbursements	O	O	O	O	O
r. Time off at destination to complete move	O	O	O	O	O
s. Change in cost of living	O	O	O	O	O
t. Loss or decrease of spouse income	O	O	O	O	O
u. Spouse employment	O	O	O	O	O
v. Transferability of entitlements (e.g., Supplemental Security Income)	O	O	O	O	O
w. Obtaining special education services	O	O	O	O	O
x. Spouse/dependents changing schools	O	O	O	O	O
y. Transferability of college credits	O	O	O	O	O
z. Availability of childcare	O	O	O	O	O

In this survey, the definition of "military duties" includes deployments, TADs/TDYs, training, military education, time at sea, and field exercises/alerts.

M9914 / Coding Note 3

14. In the past 12 months, have you been away from your permanent duty station overnight because of your military duties?

1 O Yes

2 O No → Go to Question 19 M9914SK

M9915

15. In the past 12 months, how many separate times were you away from your permanent duty station for at least one night because of your military duties?

1 O 1-2 times
2 O 3-4 times
3 O 5-6 times
4 O 7-8 times
5 O 9-10 times
6 O 11-12 times
7 O 13 times or more

M9916A - M9916J*

16. During the past 12 months, how long were you away from your permanent duty station for the following military duties? (ADD UP ALL NIGHTS AWAY FROM YOUR PERMANENT DUTY STATION; ASSIGN EACH NIGHT TO ONLY ONE TYPE OF MILITARY DUTY.)

	6---- 10 months to 12 months	5---- 7 months to less than 10 months	4---- 5 months to less than 7 months	3---- 3 months to less than 5 months	2---- 1 month to less than 3 months	1---- Less than 1 month	0---- None
a. Peacekeeping or other contingency operation	O	O	O	O	O	O	O
b. Foreign humanitarian assistance mission	O	O	O	O	O	O	O
c. Unit training at combat training centers	O	O	O	O	O	O	O
d. Counter drug operation	O	O	O	O	O	O	O
e. Domestic disaster or civil emergency	O	O	O	O	O	O	O
f. Time at sea for scheduled deployments (other than for the above)	O	O	O	O	O	O	O
g. Other time at sea (other than for the above)	O	O	O	O	O	O	O
h. Joint training/field exercises/alerts (other than for the above)	O	O	O	O	O	O	O
i. Military education (other than for the above)	O	O	O	O	O	O	O
j. Other TADs/TDYs	O	O	O	O	O	O	O

M9917* (O080/E081)

17. In the past 12 months, what was the total length of time you were away from your permanent duty station because of your military duties? (ADD UP ALL NIGHTS AWAY FROM YOUR PERMANENT DUTY STATION.)

1 O Less than 1 month
2 O 1 month to less than 3 months
3 O 3 months to less than 5 months
4 O 5 months to less than 7 months
5 O 7 months to less than 10 months
6 O 10 months to 12 months

M9918A-M9918T (O078/E079)/ Coding Note 4

18. During the past 12 months, have any of the following been a concern while you were away? (MARK ALL THAT APPLY.)

A O Managing expenses and bills
B O Household repairs, yard work, car maintenance
C O Storage or security of personal belongings
D O Pet care
E O Interruption of off duty education
F O Loss of part-time job
G O Your ability to communicate with family
H O Safety of your family in their community
I O Spouse's job demands or education demands
J O Childcare arrangements
K O Eldercare
L O Child's/children's education
M O Serious health or emotional problems of spouse, child, parent, sibling, or elderly family member
N O Divorce or marital problems
O O Birth or adoption of a child
P O Your or your spouse's pregnancy
Q O Death of a family member
R O Major financial hardship or bankruptcy within your family
S O Major home repair or replacement due to casualty, theft, fire or severe weather (e.g., hurricane, flood, earthquake, tornado)
T O Other (specify):

M9918SP / Coding Note 4

M9919

19. How many days over the past 12 months have you been detailed for work outside the scope of your primary duties (e.g., "augmentee" assignments, maintenance tasks, installation support, support tasking, and wing ready teams)?

0 O None
1 O 1-10 days
2 O 11-20 days
3 O 21-30 days
4 O 31-40 days
5 O 41-50 days
6 O 51- 60 days
7 O More than 60 days

M9920A-M9920C

20. How prepared do you believe your unit is to perform its mission with regard to…?

	5---- Very poorly prepared	4---- Poorly prepared	3---- Neither well nor poorly prepared	2---- Well prepared	1---- Very well prepared
a. Manning level	O	O	O	O	O
b. Training	O	O	O	O	O
c. Parts and equipment	O	O	O	O	O

M9921

21. Suppose you will be in the military for the next 12 months. What is the total length of time that you would expect to be away from your permanent duty station because of your military duties?

62 O I would not expect to be away from my permanent duty station in the next 12 months
1 O Less than 1 month
2 O 1 month to less than 3 months
3 O 3 months to less than 5 months
4 O 5 months to less than 7 months
5 O 7 months to less than 10 months
6 O 10 months to 12 months

CAREER INFORMATION

M9922

22. What were your career intentions when you first entered active duty?

1 O I intended to remain on active duty until I was eligible for retirement
2 O I intended to complete my obligation and then leave active duty
3 O I was not sure if I would stay on active duty or leave

M9923A-M9923U/ Coding Note 36

23. Think back to when you first entered active duty. Which of the following best describe the primary reasons why you joined? (MARK ALL THAT APPLY.)

O A. Trouble in college or break from school
O B. Get away from family, personal situation, or home town
O C. Time to figure out what you wanted to do
O D. Test yourself physically or mentally
O E. Challenging or interesting work
O F. Always wanted to be in the military
O G. Military tradition in your family
O H. Parents' encouragement
O I. Desire to serve your country
O J. Image portrayed by military personnel
O K. Few or no civilian job opportunities
O L. Pay and allowance(s)
O M. Retirement pay and benefits
O N. Security and stability of the job
O O. Opportunity to work in a specific occupation
O P. Training in skills useful for civilian employment
O Q. Family benefits
O R. Travel and new experiences
O S. Money for college, college repayment, education benefits and opportunities
O T. Personal growth and maturity
O U. Other

M9924

24. Of all your reasons listed in Question 23, which is the most important reason why you joined?

1	2	3	4	5	6	7	8	9	10	11	12
A	B	C	D	E	F	G	H	I	J	K	L
M	N	O	P	Q	R	S	T	U			
13	14	15	16	17	18	19	20	21			

M9925

25. …and which is the next most important reason why you joined?

1	2	3	4	5	6	7	8	9	10	11	12
A	B	C	D	E	F	G	H	I	J	K	L
M	N	O	P	Q	R	S	T	U	O	None	
13	14	15	16	17	18	19	20	21	0		

M9926 / Coding Note 5

26. When you first entered active duty service, did you have a preference for a military occupation?

1 O Yes
2 O No → Go to Question 28 M9926SK

M9927

27. Did you receive the military occupation of your choice?

1 O Yes
2 O No, but I received a related occupation
3 O No, I received an occupation unrelated to my choice

M9928

28. How satisfied are you now with the military occupation you received when you first entered active duty?

1 O Very satisfied
2 O Satisfied
3 O Neither satisfied nor dissatisfied
4 O Dissatisfied
5 O Very dissatisfied

M9929* (O004/E004)/ Coding Note 6

29. In which term of service are you serving now? (DO NOT COUNT EXTENSIONS AS SEPARATE TERMS OF ENLISTMENT.) M9929SK

1 O I am on indefinite status → Go to Question 32
2 O I am an officer serving an obligation
3 O 1st enlistment
4 O 2nd or later enlistment

M9930* (E005)

30. How much time remains in your <u>current</u> enlistment term or service obligation?

1 O Less than 3 months
2 O 3 months to less than 7 months
3 O 7 months to less than 1 year
4 O 1 year to less than 2 years
5 O 2 years to less than 3 years
6 O 3 years or more

M9931

31. How likely is it that you <u>would be allowed</u> to stay on active duty service at the end of your current term or service obligation?

1 O Very likely
2 O Likely
3 O Neither likely nor unlikely
4 O Unlikely
5 O Very unlikely

M9932 (E027)

32. Suppose that you have to decide whether to stay on active duty. Assuming you could stay, how likely is it that you would choose to do so?

1 O Very likely
2 O Likely
3 O Neither likely nor unlikely
4 O Unlikely
5 O Very unlikely

M9933 (O028)

33. If you stay on active duty, when would you expect your next promotion to a higher grade?

1 O Less than 3 months
2 O 3 months to less than 7 months
3 O 7 months to less than 1 year
4 O 1 year to less than 2 years
5 O 2 years or more
63 O Does not apply, I do not expect a promotion
64 O Does not apply, I have no opportunities for promotion

M9934 (O030/E028)

34. Does your spouse, girlfriend, or boyfriend think you should stay on or leave active duty?

1 O Strongly favors staying
2 O Somewhat favors staying
3 O Has no opinion one way or the other
4 O Somewhat favors leaving
5 O Strongly favors leaving
65 O Does not apply, I don't have a spouse or girlfriend/boyfriend

M9935

35. If you could stay on active duty as long as you want, how likely is it that you would choose to serve in the military for <u>at least 20 years</u>?

1 O Very likely
2 O Likely
3 O Neither likely nor unlikely
4 O Unlikely
5 O Very unlikely
66 O Does not apply, I have 20 or more years of service

M9936* (O023/E023)/ Coding Note 7

36. When you finally leave active duty, how many <u>total</u> years of service do you expect to have?

0	0
1	1
2	2
3	3
4	4
	5
	6
	7
	8
	9

YEARS

For example, if you expect to leave after completing 6 years of service, enter "06" in the boxes and fill in the corresponding circles. To indicate less than 1 year, enter "00."

M9937

37. If you were to leave active duty in the next 12 months, what would be your primary activity?

1 O Attend college or university
2 O Work for civilian company or organization
3 O Work in a civilian government job (local, state, or federal)
4 O Manage or work in family business
5 O Self-employed in your own business or profession
6 O A homemaker/housewife/househusband
7 O Go into full-time retirement
8 O None of the above

M9938 (O025/E025)

38. When you leave active duty, how likely is it that you will join a National Guard or Reserve unit?

1 O Very likely
2 O Likely
3 O Neither likely nor unlikely
4 O Unlikely
5 O Very unlikely
67 O Does not apply, I am a member of a National Guard or Reserve unit
68 O Does not apply, retiring or otherwise ineligible

M9939A-M9939KK (Q136/E137)

39. How satisfied are you with each of the following?

-6---- **Does not apply**
5---- **Very dissatisfied**
4---- **Dissatisfied**
3---- **Neither satisfied nor dissatisfied**
2---- **Satisfied**
1---- **Very satisfied**

A.	Basic pay	O	O	O	O	O
B.	Special and incentive pay	O	O	O	O	O	O
C.	Reenlistment bonus or continuation pay program	O	O	O	O	O	O
D.	Housing allowance	O	O	O	O	O	O
E.	SEPRATS/ COMRATS, subsistence allowance	O	O	O	O	O	O
F.	Military housing	O	O	O	O	O	O
G.	Medical care for you	O	O	O	O	O	
H.	Dental care for you	O	O	O	O	O	
I.	Retirement pay you would get	O	O	O	O	O	
J.	Cost of living adjustments (COLA) to retirement pay	O	O	O	O	O	
K.	Other retirement benefits such as medical care and use of base services	O	O	O	O	O	
L.	Pace of your promotions	O	O	O	O	O	
M.	Chances for future advancement	O	O	O	O	O	
N.	Training and professional development	O	O	O	O	O	
O.	Type of assignments received	O	O	O	O	O	
P.	Deployments	O	O	O	O	O	
Q.	Other military duties that take you away from permanent duty station	O	O	O	O	O	
R.	Availability of equipment, parts, and resources	O	O	O	O	O	
S.	Level of manning in your unit	O	O	O	O	O	
T.	Your unit's morale	O	O	O	O	O	
U.	Your personal workload	O	O	O	O	O	
V.	Amount of personal/ family time you have	O	O	O	O	O	
W.	Off duty educational opportunities	O	O	O	O	O	
X.	Quality of leadership	O	O	O	O	O	
Y.	Military values, lifestyle, and tradition	O	O	O	O	O	
Z.	Amount of enjoyment from your job	O	O	O	O	O	
AA.	Frequency of PCS moves	O	O	O	O	O	
BB.	Job security	O	O	O	O	O	
CC.	Location or station of choice, homeporting	O	O	O	O	O	O
DD.	Co-location with your military spouse	O	O	O	O	O	O
EE.	Medical care for your family	O	O	O	O	O	O
FF.	Dental care your family	O	O	O	O	O	O
GG.	Youth activities on base	O	O	O	O	O	O
HH.	Schools for your children	O	O	O	O	O	O
II.	Spouse employment and career opportunities	O	O	O	O	O	O
JJ.	Military family support programs	O	O	O	O	O	O
KK.	Acceptable and affordable childcare	O	O	O	O	O	O

M9940

40. Even if you have no plans to stay, of all the factors listed in Question 39, which is the most important factor for staying or considering staying on active duty?

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	**O**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
14	15	16	17	18	19	20	21	22	23	24	25	26
AA	**BB**	**CC**	**DD**	**EE**	**FF**	**GG**	**HH**	**II**	**JJ**	**KK**		
27	28	29	30	31	32	33	34	35	36	37		

M9941

41. …and which is the next most important factor for staying or considering staying on active duty?

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	**O**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
14	15	16	17	18	19	20	21	22	23	24	25	26
AA	**BB**	**CC**	**DD**	**EE**	**FF**	**GG**	**HH**	**II**	**JJ**	**KK**	**0 None**	
27	28	29	30	31	32	33	34	35	36	37	0	

M9942

42. Even if you have no plans to leave, of all the factors listed in Question 39, which is the most important factor for leaving or considering leaving active duty?

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	**O**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
14	15	16	17	18	19	20	21	22	23	24	25	26
AA	**BB**	**CC**	**DD**	**EE**	**FF**	**GG**	**HH**	**II**	**JJ**	**KK**		
27	28	29	30	31	32	33	34	35	36	37		

M9943

43. …and which is the next most important factor for leaving or considering leaving active duty?

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	**O**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
14	15	16	17	18	19	20	21	22	23	24	25	26
AA	**BB**	**CC**	**DD**	**EE**	**FF**	**GG**	**HH**	**II**	**JJ**	**KK**		**O None**
27	28	29	30	31	32	33	34	35	36	37		0

MILITARY LIFE

M9944A-M9944K

44. How important should the following factors be in determining total military compensation, including pay, benefits, and allowances?

		-6---- Does not apply	5---- Not important	4---- Somewhat important	3---- Moderately important	2---- Important	1---- Very important
a.	Job difficulty	O	O	O	O	O	
b.	Job performance	O	O	O	O	O	
c.	Danger	O	O	O	O	O	
d.	Time spent away from home	O	O	O	O	O	
e.	Number of hours worked	O	O	O	O	O	
f.	Level of responsibility	O	O	O	O	O	
g.	Amount of education/training	O	O	O	O	O	
h.	Years of experience	O	O	O	O	O	
i.	Amount civilian employer would pay for this type of work	O	O	O	O	O	O
j.	Amount needed to provide for family	O	O	O	O	O	
k.	Cost of living	O	O	O	O	O	

M9945A-M9945J (Q129/E130)

45. How much do you agree or disagree with the following statements?

		5---- Strongly disagree	4---- Disagree	3---- Neither agree nor disagree	2---- Agree	1---- Strongly agree
a.	During the past 12 months, the missions I was involved with were important to the national interest	O	O	O	O	O
b.	During the past 12 months, most or all of the military duties I performed improved or maintained unit or individual readiness	O	O	O	O	O
c.	I would find it rewarding to deploy on a peacekeeping/peacemaking operation (e.g., Bosnia)	O	O	O	O	O
d.	I would find it rewarding to deploy on an overseas humanitarian relief effort (e.g., foreign disaster relief such as Nicaragua)	O	O	O	O	O
e.	Very little of my experience and training can be directly transferred to a civilian job	O	O	O	O	O
f.	It would be easy for me to get a good civilian job if I left the military now	O	O	O	O	O
g.	I have a pretty good idea of the kinds of jobs I could get as a civilian	O	O	O	O	O
h.	I have a pretty good idea of what pay I could get as a civilian	O	O	O	O	O
i.	The benefits available to military personnel and their families have eroded over the past few years	O	O	O	O	O
j.	If asked today, I would encourage others to join the military	O	O	O	O	O

M9946

46. In general, has your life been better or worse than you expected when you first entered the military?

1. O Much better
2. O Somewhat better
3. O About what you expected
4. O Somewhat worse
5. O Much worse

99 O Don't remember

M9947

47. In general, has your work been better or worse than you expected when you first entered the military?

1. O Much better
2. O Somewhat better
3. O About what you expected
4. O Somewhat worse
5. O Much worse

99. O Don't remember

M9948A-M9948K/ Coding Note 36

48. During the past 6 months, have you done any of the following to explore the possibility of leaving the military? (MARK ALL THAT APPLY.)

A. O Thought seriously about leaving the military
B. O Wondered what life might be like as a civilian
C. O Discussed leaving and/or civilian opportunities with family members or friends
D. O Talked about leaving with your immediate supervisor
E. O Gathered information on education programs or colleges
F. O Gathered information about civilian job options (e.g., read newspaper ads, attended a job fair)
G. O Attended a program that helps people prepare for civilian employment
H. O Prepared a resume
I. O Applied for a job
J. O Interviewed for a job
K. O None of the above

M9949A-M9949J (O094/E095 O100/E100)

49. How do your opportunities in the military compare to opportunities you would have in the civilian world?

		99 Don't know	5 Much better in the military	4 Somewhat better in the military	3 No difference	2 Somewhat better as a civilian	1 Much better as a civilian
a.	Promotion opportunities	O	O	O	O	O	O
b.	Amount of personal/family time	O	O	O	O	O	O
c.	Hours worked per week	O	O	O	O	O	O
d.	Vacation time	O	O	O	O	O	O
e.	Education and training opportunities	O	O	O	O	O	O
f.	Total compensation (pay, bonuses, allowances)	O	O	O	O	O	O
g.	Health care benefits	O	O	O	O	O	O
h.	Retirement benefits	O	O	O	O	O	O
i.	Sense of accomplishment/pride	O	O	O	O	O	O
j.	General quality of life	O	O	O	O	O	O

M9950A-M9950M

50. How much do you agree or disagree with the following statements?

		5 Strongly disagree	4 Disagree	3 Neither agree nor disagree	2 Agree	1 Strongly agree
a.	Most of my friends belong to the military community	O	O	O	O	O
b.	The military community is there for me when I need it	O	O	O	O	O
c.	I have a lot in common with the civilian community	O	O	O	O	O
d.	Members of the military community sometimes turn to me for help or support	O	O	O	O	O
e.	Living on base helps active duty members and their families make ends meet	O	O	O	O	O
f.	I talk up my Service to my friends as a great organization to be a part of	O	O	O	O	O
g.	There is not much to be gained for me by sticking with a military career	O	O	O	O	O
h.	I am proud to be a member of my Service	O	O	O	O	O
i.	I find that my values and the values of my Service are very similar	O	O	O	O	O
j.	Being a member of my Service inspires me to do the best job I can	O	O	O	O	O
k.	I would turn down another job for more pay in order to remain in my Service	O	O	O	O	O
l.	My Service's evaluation/ selection system is effective in promoting its best members	O	O	O	O	O
m.	If I stay in the Service, I will be promoted as high as my ability and effort warrant	O	O	O	O	O

M9951 (O137/E138)

51. Now, taking all things together, how satisfied are you with the military way of life?

1. O Very satisfied
2. O Satisfied
3. O Neither satisfied nor dissatisfied
4. O Dissatisfied
5. O Very dissatisfied

PROGRAMS AND SERVICES

MA952A01-MA952A13 MA952B01-MA952B13/ MU952A01-MU952A13 MU952B01-MU952B13 (O192/E102)

52. On average during a month, how often do you use the following <u>on base</u> programs, facilities, or services and <u>civilian off base</u> programs, facilities, or services? 69 0 1 2 3 4 5 6 70 0 1 2 3 4 5 6

For <u>each</u> of these 13 items, mark one response in column A <u>and</u> one response in column B.	A. On base Program, Facility or Service								B. Civilian Off base Program, Facility or Service							
	Not available	0 times	1-5 times	6-10 times	11-15 times	16-20 times	21-25 times	26 times or more	Not available	0 times	1-5 times	6-10 times	11-15 times	16-20 times	21-25 times	26 times or more
1. Fitness Center/Gym	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
2. Library services	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
3. Outdoor recreation areas (e.g., campgrounds, picnic areas, beach, stables)	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
4. Outdoor recreation equipment rental	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
5. Recreation center (e.g., recreation room, music/TV, game room/amusement machines)	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
6. Golf course	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
7. Bowling center	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
8. Recreation lodging/hotel or resorts	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
9. Clubs/dance/night clubs	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
10. Commissary/supermarket/grocery store	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
11. Main exchange/department store	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
12. Social activities for service members (e.g., trips, special events, tournaments)	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
13. Auto, crafts and hobby shops	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

M9953A-M9953D*

53. During the <u>past 12 months</u>, have you used any of the following programs and services? (MARK <u>ONE</u> ANSWER IN EACH <u>ROW</u>.)

		1 Yes	2 No
a.	Adult continuing education/counseling	O	O
b.	Tuition assistance programs for college/higher education	O	O
c.	Technical/vocational programs	O	O
d.	Basic skills education	O	O

FAMILY INFORMATION

SRMARST* (Q044/E045) / Coding Note 8 / Coding Note 9

54. What is your marital status?

1 O Now married
2 O Separated
3 O Divorced → Go to Question 57 M9954SKA
4 O Widowed →Go to Question 57
5 O Never married → Go to Question 58

M9955A-M9955P* (Q045/E046) /Coding Note 10 M9954SKB

55. Is your spouse currently: (MARK ALL THAT APPLY.)

A O Serving on active duty (not a member of the National Guard or Reserve)
B O Member of the National Guard or Reserve in a full-time active duty program (AGR, TAR, AR)
C O Other type of National Guard or Reserve member (e.g., drilling unit, IMA, IRR, military technician)
D O Working in a Federal civilian job (full-time)
E O Working in a Federal civilian job (part-time)
F O Working in a civilian job on base (full-time)
G O Working in a civilian job on base (part-time)
H O Working in a civilian job off base (full-time)
I O Working in a civilian job off base (part-time)
J O Managing or working in family business
K O Self-employed in his/her own business or profession
L O Unemployed and looking for work
M O In school
N O Homemaker/housewife/househusband
O O Retired
P O Other (specify):

M9955SP / Coding Note 10

PREDUC/PREDUCA-PREDUCH/PREDHI*/Coding Note 11

56. What is the highest degree or level of school that your spouse has completed? (MARK THE ONE ANSWER THAT DESCRIBES THE HIGHEST GRADE OR DEGREE THAT YOUR SPOUSE HAS COMPLETED.)

A O 11th grade or less
B O 12 years of school, no diploma
C O High school graduate – high school diploma or the equivalent (e.g., GED)
D O Some college credit, but less than 1 year
E O 1 or more years of college, but no degree
F O Associate degree (e.g., AA, AS)
G O Bachelor's degree (e.g., BA, AB, BS)
H O Master's, doctoral degree, or professional school degree (e.g., MA/MS/PhD/MD/JD/DVM)

M9957* (Q054/E055)

57. How many times have you been divorced?

0 O None
1 O 1
2 O 2
3 O 3 or more

For questions in this section, the definition of "child or children" or "other legal dependents" includes anyone in your family, except your spouse, who has or is eligible to have a Uniformed Services identification card (military ID card) or is eligible for military health care benefits and is enrolled in the Defense Enrollment Eligibility Reporting System (DEERS).

M9958 / Coding Note 12

58. Do you have a child, children or other legal dependents based on the definition above?

1 O Yes
2 O No → Go to Question 73 M9958SK

M9959A-M9959G* (Q058/E059)

59. How many children or other legal dependents do you have in each age group? (MARK ONE ANSWER IN EACH ROW.)

Age	None (0)	1	2	3	4	5 or more
a. Under 1 year old	O	O	O	O	O	O
b. 1 year to under 2 years old	O	O	O	O	O	O
c. 2-5 years old	O	O	O	O	O	O
d. 6-13 years old	O	O	O	O	O	O
e. 14-22 years old	O	O	O	O	O	O
f. 23-64 years old	O	O	O	O	O	O
g. 65 years old or older	O	O	O	O	O	O

M9960A-M9960G* (Q059/E060)

60. How many children or other legal dependents do you have in each of the following age groups who live on a regular basis with you at your permanent duty station? (MARK ONE ANSWER IN EACH ROW.)

Age	None (0)	1	2	3	4	5 or more
a. Under 1 year old	O	O	O	O	O	O
b. 1 year to under 2 years old	O	O	O	O	O	O
c. 2-5 years old	O	O	O	O	O	O
d. 6-13 years old	O	O	O	O	O	O
e. 14-22 years old	O	O	O	O	O	O
f. 23-64 years old	O	O	O	O	O	O
g. 65 years old or older	O	O	O	O	O	O

M9961A-M9961G*

61. How many children or other legal dependents do you have in each of the following age groups who live on a regular basis at a different location than your permanent duty station? (MARK ONE ANSWER IN EACH ROW.)

Age	None (0)	1	2	3	4	5 or more
a. Under 1 year old	O	O	O	O	O	O
b. 1 year to under 2 years old	O	O	O	O	O	O
c. 2-5 years old	O	O	O	O	O	O
d. 6-13 years old	O	O	O	O	O	O
e. 14-22 years old	O	O	O	O	O	O
f. 23-64 years old	O	O	O	O	O	O
g. 65 years old or older	O	O	O	O	O	O

M9962A-M9962R (Q068/E069) / Coding Note 13

62. During the <u>past 12 months</u>, have you <u>routinely</u> used any of the following childcare arrangements? (MARK ALL THAT APPLY.)

A O Not applicable, I have not used any of the following childcare arrangements
→ Go to Question 68 M9962ASK
B O Child's other parent or stepparent
C O Child's brother or sister (aged 15 or older)
D O Child's brother or sister (under the age of 15)
E O Child's grandparent
F O Other relative
G O Friend or neighbor
H O Sitter, nanny, or au pair
I O Preschool (on base)
J O Preschool (off base)
K O "Child Development Center" (on base)
L O Childcare center/day care center (off base)
M O "Family Childcare Home" (on base)
N O Childcare provider in a home setting (off base)
O O "School-Age Care Program" (on base)
P O After-school program (off base)
Q O Federally supported Head Start program
R O None of the above

M9963

63. How many of your children routinely use the childcare arrangements marked in Question 62?

1 O 1
2 O 2
3 O 3
4 O 4
5 O 5 or more

M9964A / Coding Note 14 M9964B* (Q070/E070) / Coding Note 15

64. What is the <u>total</u> amount that you spent <u>last month</u> on childcare arrangements for all of your children?

A O Does not apply, I spent no money on childcare arrangements last month M9964ASK

B MONTHLY CHILDCARE EXPENSE

$ ☐☐☐☐ **. 0 0**

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Write your monthly expense in the boxes, then fill in the corresponding circles. For example, if you spent $100 last month, you would enter "0100."

M9965 / Coding Note 16

65. During the <u>past 12 months</u>, was there any change in your childcare arrangements for your child or children?

1 O Yes
2 O No → Go to Question 68 M9965SK

M9966A-M9966M

66. For what reasons did the childcare arrangements change? (MARK ALL THAT APPLY.)

A O Beginning, ending, or changes in a child's school enrollment
B O Beginning, ending, or changes in military assignment
C O Beginning, ending, or changes in spouse's school enrollment
D O Cost
E O Availability or hours of care provider
F O Reliability of care provider
G O Quality of care provided
H O Care provider's location or accessibility
I O Never had any regular arrangement
J O Child outgrew arrangement
K O No longer eligible for assistance
L O Arrangement no longer available
M O Other (specify):
M9966SP / Coding Note 17

M9967

67. During the <u>past 12 months</u>, did you lose <u>any</u> time from your military duties (work, school, or training) due to a <u>change</u> in childcare arrangements?

1 O Yes
2 O No

M9968 / Coding Note 18

68. Do you have a child or children enrolled in school?

1 O Yes
2 O No → Go to Question 73 M9968SK

M9969* (Q068/E069 Q072/E073) / Coding Note 19

69. What type of school does your youngest school-age child attend?

1 O College or university → Go to Question 73
2 O Public school <u>off base</u> M9969SK
3 O Public school <u>on base</u>
4 O DoD school for dependents
5 O A religion-affiliated school
6 O A private day school, not religion-affiliated
7 O A private boarding school
8 O Home school
9 O Other (specify):
M9969SP / Coding Note 20

M9970* / Coding Note 21

70. About how many <u>hours per week</u> does your child usually spend in school? (If you have more than one child, answer for the youngest school-age child.)

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

HOURS PER WEEK

Write the number of hours in the boxes, then fill in the corresponding circles.

M9971A-M9971G

71. For the type of school you marked in Question 69, please rate the following.

-6---- **NA/DK = Not applicable or don't know**
5---- **E = Fail**
4---- **D = Poor**
3---- **C = Satisfactory**
2---- **B = Good**
1---- **A = Excellent**

		-6	5	4	3	2	1
a.	Overall academic program	O	O	O	O	O	O
b.	Support services provided by the school	O	O	O	O	O	O
c.	Special education programs	O	O	O	O	O	O
d.	Physical plant (building, school grounds, heating/cooling, food service, etc.)	O	O	O	O	O	O
e.	Availability of extracurricular activities	O	O	O	O	O	O
f.	Safety of school	O	O	O	O	O	O
g.	Overall quality of the school	O	O	O	O	O	O

M9972A-M9972F

72. Have you participated in, or been involved with, the following activities related to your child's or children's education? (MARK ALL THAT APPLY.)

A. O Attending conferences or meetings with teachers regarding the school
B. O Working with teachers to promote achievement
C. O Collaborating on educational opportunities for students, parents, and teachers
D. O Planning and implementing curricular and extra-curricular activities
E. O Participating in decision making and problem solving to promote learning
F. O None of the above

M9973* (O074/E075)

73. Do you have a child, spouse, or other legal dependent enrolled in the Exceptional Family Member Program (EFMP) or the Coast Guard Special Needs Program?

1. O Yes
2. O No

M9974 (O076/E077) / Coding Note 22

74. Do you have caregiver responsibilities for an elderly family member (shopping, home maintenance, transportation, checking on them by phone, finances, arrangements for care, etc.)? (This includes persons who live with you or live somewhere else.)

1. O Yes
2. O No → Go to Question **77** M9974SK

M9975

75. How many elderly family members do you have caregiver responsibilities for?

1. O One
2. O Two
3. O Three or more

M9976

76. During the <u>past 12 months</u>, did you lose <u>any</u> time from your military duties due to eldercare responsibilities?

1. O Yes
2. O No

M9977A-M9977H / Coding Note 23

77. How satisfied or dissatisfied are you with each of the following aspects of military health care for your family?

H. O Does not apply, I do not have any family members eligible to receive military health care.
→ Go to Question 78 M9977HSK

5---- **Very dissatisfied**
4---- **Dissatisfied**
3---- **Neither satisfied nor dissatisfied**
2---- **Satisfied**
1---- **Very satisfied**

		5	4	3	2	1
a.	My out-of-pocket cost for care	O	O	O	O	O
b.	Skill of physicians and other medical providers	O	O	O	O	O
c.	Availability of specialists	O	O	O	O	O
d.	Ability to get appointments	O	O	O	O	O
e.	Waiting time in the clinic	O	O	O	O	O
f.	Overall quality of care	O	O	O	O	O
g.	Administrative requirements (claims, paperwork, approvals, etc.)	O	O	O	O	O

M9978 (O105/E106) / Coding Note 24

78. In the last month, did you perform any non-military volunteer work?

1. O Yes → Go to Question 80 M9978SK
2. O No

M9979A-M9979F

79. What were your reasons for not volunteering? (MARK ALL THAT APPLY.)

A. O I was not asked to perform volunteer work
B. O I did not have time for volunteer work
C. O I did not have access to childcare so I could perform volunteer work
D. O I am not interested in volunteer work
E. O I did not have transportation
F. O None of the above

M9980

80. How is your general outlook about your life?

1 O Very optimistic
2 O Optimistic
3 O Neither optimistic nor pessimistic
4 O Pessimistic
5 O Very pessimistic

M9981 / Coding Note 25

81. Are you accompanied by family members (spouse, child, or other legal dependents) at your permanent duty station?

1 O Yes → Go to Question 83 M9981SK
2 O No

M9982A-M9982L*

82. Why didn't your family members accompany you to your permanent duty station? (MARK ALL THAT APPLY.)

A O Does not apply, I have no family members
B O Legal separation or divorce from spouse
C O Temporarily unaccompanied (family members will join me later)
D O Permanently unaccompanied because it was required for the authorization/billet
E O Permanently unaccompanied because family members were not command sponsored (overseas tour)
F O Permanently unaccompanied because household goods move was not authorized with PCS orders
G O Spouse's career
H O Spouse's education
I O Child's/children's education
J O Health or illness of family member
K O Eldercare responsibilities
L O Other (specify):

M9982SP /Coding Note 26

M9983* (O017/E017)

83. During your active duty career, how many times did <u>your family members</u> move to a new location because of your permanent change of station (PCS)?

0 O	None	6 O	6
1 O	1	7 O	7
2 O	2	8 O	8
3 O	3	9 O	9
4 O	4	10 O	10 or more
5 O	5		

M9984A-M9984I*/ Coding Note 36

84. Have any of your relatives ever served on active military duty? (MARK ALL THAT APPLY.)

A O Parent or guardian
B O Spouse
C O Brother or sister
D O Son or daughter
E O Grandparent
F O Uncle or aunt
G O Cousin
H O Other close relative
I O None of my relatives have served on active duty

ECONOMIC ISSUES

The questions in this section address economic issues in the lives of military members and their families. The information will be used to better understand the economic and financial concerns of military members and their families. Although people will have different views on what is or is not personal, many people will consider some of the questions very personal. Please continue with the survey even if there are some questions that you want to skip.

M9985 / Coding Note 27

85. During your off-duty time, do you currently hold a second job or work at your own business?

1 O Yes
2 O No → Go to Question 87 M9985SK

M9986* (O107/E108) / Coding Note 28

86. On average, how many hours a week do you spend working at a civilian job or working at your own business during your off-duty hours?

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

HOURS PER WEEK

For example, if you worked 8 hours, enter "08" in the boxes and fill in the Corresponding circles.

M9987A-M9987L (O117/E118) / Coding Note 36

87. During the <u>past 12 months</u>, did you (and your spouse) receive any income or financial support from the following sources? (MARK ALL THAT APPLY.)

A O A second job
B O Alimony
C O Child support
D O Supplemental Security Income (SSI)
E O Unemployment or Worker's compensation
F O State-funded childcare assistance
G O Women, Infants, and Children (WIC)
H O Food Stamp Program
I O Head Start Program
J O Aid to Families with Dependent Children (AFDC)
K O Medicaid
L O Other (specify):

M9987SP / Coding Note 29

M9988

88. What is your <u>total</u> monthly gross (before-tax) household income from <u>all sources</u>? (Please include your military earnings, your earnings from a second job, your spouse's earnings, and income or financial support from any other source.)

1 O $ 1-1,000
2 O $ 1,001-2,000
3 O $ 2,001-3,000
4 O $ 3,001-4,000
5 O $ 4,001-5,000
6 O $ 5,001-6,000
7 O $ 6,001-7,000
8 O $ 7,001-8,000
9 O $ 8,001-9,000
10 O $ 9,001-10,000
11 O $ 10,001 and above

M9989

89. Roughly, what is the total amount of savings you (and your spouse) have? (Please include funds in bank accounts, IRAs, money market accounts, Certificates of Deposit (CDs), Savings Bonds, mutual funds, stocks and/or bonds.)

0 O $ 0
1 O $ 1-1,000
2 O $ 1,001-2,500
3 O $ 2,501-5,000
4 O $ 5,001-7,500
5 O $ 7,501-10,000
6 O $ 10,001-12,500
7 O $ 12,501-15,000
8 O $ 15,001-17,500
9 O $ 17,501-20,000
10 O $ 20,001-50,000
11 O $ 50,001-100,000
12 O $ 100,001 and above

M9990 (M061/E062)

90. Do you (or your spouse) <u>pay</u> child support?

1 O Yes, I pay child support
2 O Yes, my spouse pays child support
3 O Yes, both my spouse and I pay child support
4 O No

M9991

91. What is the total amount you (and your spouse) paid <u>last month</u> for rent or mortgage?

0 O $ 0
1 O $ 1-400
2 O $ 401-800
3 O $ 801-1,200
4 O $ 1,201-1,600
5 O $ 1,601-2,000
6 O $ 2,001 and above

M9992

92. What is the total amount you (and your spouse) paid last month for all loans and leases on cars, trucks, or motorcycles?

0 O $ 0
1 O $ 1-250
2 O $ 251-500
3 O $ 501-750
4 O $ 751-1,000
5 O $ 1,001-1,250
6 O $ 1,251-1,500
7 O $ 1,501 and above

M9993

93. What is the amount of <u>payments</u> that you (and your spouse) made <u>last month</u> to cover personal unsecured debt? (<u>Include</u> all credit cards, debt consolidation loans, AAFES loans, NEXCOM loans, student loans, and other personal loans; <u>exclude</u> home mortgage and car loans)

0 O $ 0
1 O $ 1-150
2 O $ 151-300
3 O $ 301-450
4 O $ 451-600
5 O $ 601-750
6 O $ 751-900
7 O $ 901-1,050
8 O $ 1,051 and above

M9994

94. After the last payment was made on personal unsecured debt, what was the total amount you (and your spouse) still owed? (<u>Include</u> all credit cards, debt consolidation loans, AAFES loans, NEXCOM loans, student loans, and other personal loans; <u>exclude</u> home mortgage and car loans)

0 O $ 0
1 O $ 1-1,000
2 O $ 1,001-2,500
3 O $ 2,501-5,000
4 O $ 5,001-7,500
5 O $ 7,501-10,000
6 O $ 10,001-12,500
7 O $ 12,501-15,000
8 O $ 15,001-17,500
9 O $ 17,501-20,000
10 O $ 20,001 and above

M9995

95. Which of the following best describes the financial condition of you (and your spouse)?

1 O Very comfortable and secure
2 O Able to make ends meet without much difficulty
3 O Occasionally have some difficulty making ends meet
4 O Tough to make ends meet but keeping your head above water
5 O In over your head

M9996A-M9996O/ Coding Note 36

96. In the past 12 months, did any of the following happen to you (and your spouse)? (MARK ALL THAT APPLY.)

A O Bounced two or more checks
B O Received a letter of indebtedness (e.g., a letter from a lender to your commanding officer that payment is late)
C O Had your wages garnished
D O Fell behind in paying your rent or mortgage
E O Fell behind in paying your credit card, AAFES, or NEXCOM account
F O Was pressured to pay bills by stores, creditors, or bill collectors
G O Had a bill collector contact your unit leader
H O Pawned or sold valuables to make ends meet
I O Borrowed money from friends or relatives to help you with a financial difficulty
J O Borrowed money through an Emergency Loan Assistance Program or a Service Aid Society
K O Had your utilities (telephone, cable, water, heat or electricity) shut off
L O Had a car, household appliances, or furniture repossessed
M O Was unable to afford needed medical care
N O Went bankrupt (declared personal bankruptcy)
O O None of the above

A Thrift Savings Plan (TSP) is a tax-deferred retirement savings plan like a 401(k) plan.

- **Employees may deposit a portion of their pay (typically up to 5 or 10 percent) before taxes into a long-term fund to provide savings for retirement.**
- **Employers may match none, some, or all of their employees' contributions.**
- **A wide range of investment options is generally available, including funds that follow the stock and bond markets.**
- **TSP funds may be taken to another employer or rolled over into other qualified retirement savings plans.**
- **Funds may begin to be withdrawn at around age 59½--earlier withdrawals are usually penalized.**

M9997A-M9997C

97. If this type of plan were made available to you, how likely would you be to participate in each of the following situations?

	5 Very unlikely	4 Unlikely	3 Neither likely nor unlikely	2 Likely	1 Very likely
a. If there were no government matching	O	O	O	O	O
b. If the government matched your contribution up to 5% of pay	O	O	O	O	O
c. If you could invest any reenlistment or continuation bonus into the fund tax-deferred	O	O	O	O	O

M9998

98. Which, if any, of the following is your main concern about the military retirement system?

-6 O Does not apply, I have no concerns
1 O No pension benefits are earned unless you serve at least 20 years
2 O No ability to save toward retirement with a 401(k) or other retirement savings program
3 O The government does not match any money you put away for retirement
4 O You cannot transfer your retirement benefits to another employer
5 O Other

M9999

99. Currently, military personnel do not qualify for retirement benefits unless they serve for at least 20 years. If the system were changed so that you became eligible after at least 10 years of service for a deferred pension payable at age 62, how much influence would this have on your willingness to stay in the military until at least the 10-year point?

71 O Does not apply, I have already served 10 years
72 O Does not apply, I already intend to stay
1 O Little or no influence
2 O Some influence
3 O Moderate influence
4 O Strong influence

M99100

100. Congress is considering a proposal to modify the retirement pay formula for those who entered the service on or after August 1, 1986 to the same formula that applied to those who entered before that date. Assuming the retirement pay formula were changed, how much influence would this have on your willingness to stay in the military?

73 O This would not affect me since I entered the service before August 1, 1986
72 O Does not apply, I already intend to stay
1 O Little or no influence
2 O Some influence
3 O Moderate influence
4 O Strong influence

BACKGROUND INFORMATION

SRSEX* (O032/E033)

101. Are you:

1 O Male
2 O Female

SRESL

102. Is English a second language for you?

1 O Yes
2 O No

SRHISP* (O036/E037)

103. Are you Spanish/Hispanic/Latino? (MARK "No" IF NOT SPANISH/HISPANIC/LATINO.)

1. O No, not Spanish/Hispanic/Latino
2. O Yes, Mexican, Mexican American, Chicano
3. O Yes, Puerto Rican
4. O Yes, Cuban
5. O Yes, other Spanish/Hispanic/Latino

SRRACEA-SRRACEF* (O035/E036) / Coding Note 30

104. What is your race? (MARK ONE OR MORE RACES TO INDICATE WHAT YOU CONSIDER YOURSELF TO BE.)

A. O White
B. O Black or African-American
C. O American Indian or Alaska Native
D. O Asian (e.g., Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese)
E. O Native Hawaiian or other Pacific Islander (e.g., Samoan, Guamanian, or Chamorro)
F. O Some other race (specify):

SRRACESP /Coding Note 30

M99105* / M99105A-M99105H* / M99105HI* (O038/E039) / Coding Note 31

105. At the time you <u>first came on active duty</u>, how much education had you completed? (MARK THE ONE ANSWER THAT DESCRIBES THE HIGHEST GRADE OR DEGREE THAT YOU HAD COMPLETED.)

A. O 11th grade or less
B. O 12 years of school, no diploma
C. O High school graduate – high school diploma or the equivalent (e.g., GED)
D. O Some college credit, but less than 1 year
E. O 1 or more years of college, but no degree
F. O Associate degree (e.g., AA, AS)
G. O Bachelor's degree (e.g., BA, AB, BS)
H. O Master's, doctoral degree, or professional school degree (e.g., MA/MS/PhD/MD/JD/DVM)

SRED*/SREDA-SREDH* /SREDHI* (O039/E040) / Coding Note 32

106. What is the highest degree or level of school that you have completed? (MARK THE ONE ANSWER THAT DESCRIBES THE HIGHEST GRADE OR DEGREE THAT YOU HAVE COMPLETED.)

A. O 11th grade or less
B. O 12 years of school, no diploma
C. O High school graduate – high school diploma or the equivalent (e.g., GED)
D. O Some college credit, but less than 1 year
E. O 1 or more years of college, but no degree
F. O Associate degree (e.g., AA, AS)
G. O Bachelor's degree (e.g., BA, AB, BS)
H. O Master's, doctoral degree, or professional school degree (e.g., MA/MS/PhD/MD/JD/DVM)

M99107* / Coding Note 33

107. Are you currently serving on active duty and/or in the Guard/Reserve?

1. O Yes, serving on active duty (not a member of the Guard/Reserve)
2. O Yes, a member of the Guard/Reserve in a full-time active duty program (AGR, TAR, AR)
3. O Yes, other type of Guard/Reserve member (e.g., drilling unit, IMA, IRR, military technician)
4. O No →Go to Question 110 M99107SK

SRSVC* (Comment)

108. In what Service are you?

1. O Army
2. O Navy
3. O Marine Corps
4. O Air Force
5. O Coast Guard

SRGRADE* (O003/E003)

109. What is your current paygrade?

1. O	E-1	10. O	W-1	15. O	O-1
2. O	E-2	11. O	W-2	16. O	O-2
3. O	E-3	12. O	W-3	17. O	O-3
4. O	E-4	13. O	W-4	18. O	O-4
5. O	E-5	14. O	W-5	19. O	O-5
6. O	E-6			20. O	O-6 or above
7. O	E-7				
8. O	E-8				
9. O	E-9				

M99110* / Coding Note 34

110. How many years of active duty service have you <u>completed</u>?

0	0
1	1
2	2
3	3
4	4
5	5
	6
	7
	8
	9

YEARS

For example, if you have completed 3 years of service, you would enter "03." To indicate less than 1 year, enter "00."

SRDATEMM* / SRDATEDD* / SRDATEYY* / SRDATE / Coding Note 35

111. What date did you complete this survey?

DATE

MONTH	DAY		YEAR
O January			O 1999
O February			O 2000
O March	0	0	
O April	1	1	
O May	2	2	
O June	3	3	
O July		4	
O August		5	
O September		6	
O October		7	
O November		8	
O December		9	
1-12	01-31		1999 & 2000

COMMENTS

COMMENT / Coding Note 37

112. If you have comments or concerns that you were not able to express in answering this survey, please write them in the space provided. If your comments relate to specific questions on this survey, please make a note of the question number beside your comment.

- **PLEASE RETURN YOUR COMPLETED SURVEY IN THE BUSINESS REPLY ENVELOPE.**
- **IF YOU ARE RETURNING THE SURVEY FROM ANOTHER COUNTRY, BE SURE TO RETURN THE BUSINESS REPLY ENVELOPE ONLY THROUGH A U.S. GOVERNMENT MAIL ROOM OR POST OFFICE.**
- **FOREIGN POSTAL SYSTEMS WILL NOT DELIVER BUSINESS REPLY MAIL.**

THANK YOU FOR YOUR TIME AND ASSISTANCE

Appendix D

Coding Scheme for the 1999 Survey of Active Duty Personnel – Form A

Coding Scheme for the *1999 Survey of Active Duty Personnel*

The guiding premise in coding DMDC surveys is that the individuals creating the dataset will not be the only ones analyzing the data. DMDC rarely collects data only for immediate use or to answer one question. Rather, these datasets are analyzed repeatedly over time at both DMDC and other organizations in the government, academia, and the private sector. Therefore, DMDC is careful to organize and document surveys so that secondary analysts can use the data and be reasonably certain they understand both the coding and the limitations of the data.

Data Structure

For each survey, DMDC maintains several history and operations files. These files contain confidential data protected by the Privacy Act of 1974 (P.L. 93-579) and are not documented in published technical manuals and codebooks. The private files, created in the course of sampling, weighting, and survey operations, include:

1. Population and sample files that contain portions of the data in personnel master files as well as variables constructed in the process of sampling and weighting.

2. Survey Control System (SCS) files developed to control survey operations. SCS files contain DMDC file information on the sample, as provided to the contractor responsible for handling survey operations. Data elements are added to SCS files about the materials mailed to each sample member, the dates of mailings, and the sources of all addresses used in mailings. The SCS also contains information on eligibility provided by sample members to the operations contractor.

3. Raw data files generated by optically scanning the surveys.

4. Separate files of key-entered write-in responses. One file is created for each write-in block on the survey. These files contain verbatim text and are linkable to other survey files by the lithocode of the survey. As a general rule, all personal and location names are replaced by "[NAME]" and all expletives are replaced by "[EXPLETIVE]" during key entry.

5. Duplicate record files. Because multiple surveys are sent to many respondents, there are sometimes duplicate (or even triplicate) returns of surveys from a sampled person. Procedures are described elsewhere for determining which of the multiple returns are considered duplicates. Records for these second (or third) returns are maintained in a separate file for research purposes.

This appendix describes how the survey analysis file of survey responses is created, primarily from the raw data files generated by scanning the surveys. The survey analysis file contains one record for *each sampled person.* Each record contains variables for all survey items, key SCS variables, master file variables, weighting variables, and other constructed analytic variables. A subset of this file is the public-use analytic file. The public-use file contains a record for each person in the sample, and all variables required for analysis—that is, all survey data, weights and selected SCS and master file variables thought to be reasonably

required for analysis, that do not violate respondent confidentiality under the Privacy Act.

Variable Naming

In responding to a customer's request for information, DMDC often uses multiple data sources. Information on a particular topic could be obtained from different surveys or from a survey that has been repeated over a number of years. For example, a customer might be interested in organizational commitment items included in a survey in 1992 and in 1999. Conventions discussed below are being used as a means for facilitating such analyses.

Non-survey-derived Variables

Variable names for non-survey-derived variables tend to be character strings that aid in remembering the meanings of the variables. Three important conventions were used in naming variables.

A variable name from DMDC record files was used only if the data, values, and value labels were identical to those from an official DMDC data file. When data were added to an analysis file unchanged from record data, the same variable name, values, and value labels were used. For example, "SERVICE" is a field in the ADMF and RCCPDS that indicates the member's Service; since the variable in the survey data file is identical to that in the record data from the month that the sample was drawn, the same variable name and labels were used. In contrast, the constructed variable CSERVICE was given a variable name that is not used in the official records so as not to confuse analysts who work routinely with record data.

Beginning a variable name with "X" indicates it is a special crossing (marginal) variable for key analyses. "X variables" typically involve using record data to impute values for missing data in survey items. (See Appendix I for the programming that was used to compute X variables.)

Recoded variables are named with "R" at the beginning and may be used to mask data. In such cases, collapsing or recoding to missing is performed in order to preserve confidentiality of respondents.

Survey-derived Variables

Identical demographic items are used across many DMDC surveys. Each time that a particular item is used, it is given the same variable name. The variable names for this group of demographic items start with *SR* (a mnemonic for *s*elf or *s*urvey *r*eport). In the *1999 Survey of Active Duty Personnel*, the following items fall into this category: SRSEX (gender), SRAGE (age), SRESL (English as a Second Language), SRED (education), SRHISP (Hispanic ethnicity), SRRACE (race), SRMARST (marital status), SRSVC (service), SRGRADE (paygrade), SRDATE (date the survey was completed), and COMMENT (flag indicating if a comment has been entered). In addition, a convention of *PR* (for *P*roxy *R*eport) has been adopted for use with variables in which the respondent is reporting information about someone other than himself or herself. In the present survey, PREDUC (spouse education), PRSVC (spouse Service) and PRGRADE (spouse paygrade) are included in this category.

Variable names for items that are not standardized across DMDC surveys start with 1 or 2 letters to represent the survey, followed by 2 digits to represent the year the data are gathered, and end with 4 or 5 numbers or letters corresponding to the questionnaire item. To accomplish proper sorting of variable names, leading zeros are used for questions 1-9 so that items will be numbered from '01' through '111.' Typically, the last one or two characters are blank, or contain a letter representing one of the sub-items within the question, or two letters representing a flag or coded variable. The basic naming conventions are implemented as follows for the *1999 Survey of Active Duty Personnel*:

- The first position is "M" for the basic variables[13] for items appearing in the Form A of the 1999 Survey of Active Duty Personnel, using one letter to represent the survey form received by members.

- The second and third characters after the M are "99" to indicate these data came from a survey administered in 1999.

- The fourth, fifth and sixth characters are item numbers in the survey.

- Letters following the numbers for multi-part items usually represent the sub-item. The exceptions, summarized here, are further explained in Table D-3:

  – Specify flags (ending in 'SP') indicate whether information was written in a specify box. For example, if respondents to this survey select *Other* on Question 18 (member), they are asked to write a response in the text box. M9918SP is a flag variable that indicates whether text was entered in the write-in area, and whether the presence of text in this area is consistent with how the basic question was answered. In preliminary files, specify flag variables are based on scanning the write-in areas of the survey for marks. In the final dataset, these variables are based on matching to the verbatim files to determine if legible text was entered for the write-in area.

  – Skip pattern flags (ending in 'SK') represent data quality for questions that direct respondents to skip subsequent questions if they respond in a certain way. For example, if respondents to this survey indicate on Question 81 that family members at permanent duty station do not currently accompany them, they are directed to skip Question 82. M9981SK is a flag variable that indicates if the responses to Question 82 are answered consistently with the skip directions.

Value Coding and Formats

The main analytic file is a SAS system file or dataset. An OS or flat file version of the public release file was then prepared from the SAS system file. Although numeric variables can take more storage space, many statistical and logical operations can only be done with variables

[13] While the most frequently used variables for the survey items start with M, variables may also start with a "U" to indicate that they are not edited for skip pattern consistency or an "R" to indicate that they have been recoded from the basic variable.

that are declared as numeric. Values for alphabetic variables were input with $CHARw formats to preserve leading, embedded, and trailing blanks. This section describes how values were treated in creating the SAS system file and notes any differences in the flat file. In the SAS system file, variables were declared as numeric unless they contain true alphabetic characters.

Raw Data Encoding Process

The first step in creating the SAS system file involve optically scanning the surveys and resolving problems based on visual inspection of problem surveys. Problems often arise from returned surveys that could not be scanned because they had been mutilated in the mail, lightly marked, or completed in ink as well as incorrectly marking grid items. Most surveys were key entered in separate batches. Data editors attempt to resolve every grid item problem with no response (-9), a multiple response error (-8), or an incomplete response (-4) by visually inspecting surveys that contain these codes and manually verifying the data. These three codes remain in the data file if manual inspection of the item cannot resolve the problem.

Data cleaning and editing can be thought of as occurring in five coding steps. In practice these steps may not be strictly linear; however, they are a convenient framework to understanding the meaning of the codes.

1. Each response is coded with one of four standard codes: valid response (see the annotated survey form in Appendix C), no response (-9), or multiple response error (-8), or incomplete grid error (-4).
2. Specify flag variables are created, and codes are assigned to indicate if respondents wrote in responses correctly where write-in boxes were used.
3. Skip flag variables are created, and codes are assigned to indicate if respondents completed the skip pattern correctly.
4. Special codes for valid skips are assigned to variables within skip patterns using a "forward coding" process.
5. Text code variables may be created with codes assigned based on content coding of the text entries. Text variables for the *1999 Surveys of Active Duty Personnel* may include (a) text entered in the "Other–Please specify" write-in boxes, and (b) text entered in the Comments section.

In the coding sequence outlined above, coding in the third and later steps builds on prior steps. For example, response codes assigned in Step 1 are based on the position of a mark on the survey as indicated in the survey form in Appendix C. The later coding steps may transform values assigned in Steps 1 and 2.

The next sections discuss the assignment of missing value codes, the special treatment of date variables and the editing of skip patterns during steps 3 and 4.

Missing Data Codes

The instructions used to assign missing data codes and other special codes are shown in five tables. In these tables, the value labels associated with each assigned code are shown in italicized text. These are the SAS format labels used in the SAS system file.

- Table D--1 contains standard missing data codes for DMDC surveys.
- Table D--2 contains SAS and flat file missing data codes for dates.
- Table D--3 contains examples of coding notes for flag variables.
- Table D--4 contains SAS and flat file special "not applicable" codes.
- Table D--5 provides detailed coding notes on items involving skip patterns, write-in text boxes or other non-obvious coding.

The codes presented in Table D-1 are general missing data codes that have been adopted in recent years for use on DMDC surveys. (Standards for date variables are in Table D-2.) Both tables have separate columns for values used for SAS system file and flat file. The biggest difference between the flat file and SAS system file is in the treatment of missing values. The flat file codes differ from the SAS codes because SAS implements special missing codes and formats that may not be compatible with other statistical analysis software such as SPSS. SAS can represent up to 27 different missing data values for numeric variables as either a period or a period-letter combination. Although SAS can read alphas representing missing data in a raw data field declared to be numeric, other programs such as SPSS do not accept alpha characters in numeric fields. Following a social sciences convention, different types of missing data are represented in the flat file by negative numbers that can be declared as missing values in SAS or SPSS. For example, a multiple-response error in the flat file is coded as a '-8' for numeric variables, which can be declared as a missing value when the data are input to SPSS. In SAS this declaration is made by converting the '-8' to '.A,' the current DMDC standard to represent a multiple response error in the SAS system file.

For a single item that contains a response alternative of "Not applicable", a missing data code of "-6" (SAS: .N) is typically used. When multiple items can be affected by a skip pattern or when item(s) have multiple ways to be not applicable, other specific codes are used. This type of coding is discussed later in the section entitled "Skip Pattern Coding."

Records are included in the files for sampled members regardless of whether or not they returned a survey. If a member did not return a survey or returned a blank survey, every survey variable is assigned a value of "-1" (SAS: .B).

Data requirements of SUDAAN were also considered in coding the survey. Primarily this meant not using a code of zero that has a special use for certain procedures in SUDAAN for a variable being used as an independent variable.

Table D-1:
Basic SAS® and Flat File Missing Data Codes

SAS® File		Flat File		
Numeric	Alpha	Numeric	Alpha	Description
-99	.S	-99	.S	*No response* (Missing skip of series). Only used for "Mark All That Apply" series.
.	.	-9	.	*No response or missing skip*
.A	.A	-8	.A	*Multiple response error*
.O	.O	-7	.O	*Out-of-range*
.N	.N	-6	.N	*Not applicable or Does not apply or valid skip*
.F	.F	-5	.F	*Variable not on survey form*. This value is reserved for multiple-form surveys.
.I	.I	-4	.I	*Incomplete grid error*
.G	.G	-3	.G	*No match on official records*. Only used for master file, sampling, and weighting variables for surveys that cannot be matched back to the sample file. Typically used in files of duplicate returns; these returns are not stored in the main or public-use data files.
.M	.M	-2	.M	*Missing continuation*
.B	.B	-1	.B	*Blank/no survey*. Filler values for survey variables when either a blank survey is returned or no survey is returned. Control system variables retain assigned values.
99	DK	99	DK	*Don't know or Not sure**

* Use of "Don't know" or "Not sure" as a response is not missing data. It is, however, given special treatment because it lacks precision and is *sometimes* excluded when calculating percentages. If an analyst decides to exclude this response when calculating percentages, it should be recoded as missing; in SAS datasets the value .D is suggested for use.

Table D-2:
SAS® and Flat File Missing Data Codes for Dates

SAS® File		Flat File		
Recoded value	Value read from input	YYYYMMDD	MMMYYYY	Description
.	-54908	18090901	SEP1809	*No response (invalid skip)*
.A	-55304	18080801	AUG1808	*Multiple response error*
.O	-55701	18070701	JUL1807	*Out-of-range error*
.N	-56096	18060601	JUN1806	*Not applicable (valid skip)*
.I	-56887	18040401	APR1804	*Incomplete grid error*
.B	-58073	18010101	JAN1801	*Blank/no survey*. Filler value for survey variables when either a blank survey is returned or no survey is returned. Control system variables retain assigned values.

Note. Exact dates are formatted DDMMMYY[14] (SAS input format YYMMDD8.). Because SAS stores dates as the number of days from a standard date of 1 January 1960, special dates have to be used to indicate specific types of missing or error data. The column headed YYYYMMDD shows how special missing data values for ARVDATE and SRDATE are formatted in the flat file for this survey.[15] When SAS reads a date value from a flat file, it stores that date as the value in the column headed "Value read from input." SAS "if-then" statements are used to recode those values to the special missing value codes in the first column. This conversion has already been done in the DMDC SAS system file for this survey, and ARVDATE and SRDATE has the values shown under the "Recoded value" column.

Standard Flag Variables

As noted above, this survey employs two flag variables: specify flags and skip pattern flags. In the second edit step, specify flags are set in accordance with Table D-3, item 1. In the third edit step, skip flags are set in the manner discussed in Table D-3, item 2; however, the specifics for each skip or specify flag used in this survey are detailed in Table D-5. Note that the codes for *valid skip* and *invalid skip* in the flag variables are different from those used for standard survey items (i.e., the codes shown in Table D-1).

[14] Similarly, dates given as months and years would be formatted as MONYYYY (e.g., AUG1993). When input by SAS format MONYY7., month/year/dates are stored as if they specified the first day of the month.
[15] While there are no variables in this survey where only a month and year are entered, the column MMMYYYY is included in this table to illustrate how the coding works for this type of variable in other surveys.

Table D-3:
Standard Coding Notes For Flag Variables

1. **SPECIFY FLAGS.** A flag variable with a name ending in 'SP' is generated for each write-in box (i.e., for "Other–Please specify" responses). Specify flags indicate the result of checking the write-in box for marks and checking the parent variable to see if the *Other* response option was selected.

   The specify flag variables are coded with one of four values:

   1 *Valid skip*
   Assigned to the specify flag if the parent variable is not marked (e.g., S9903K= 1) and no text is entered in the write-in box.

   2 *Valid Continuation*
   Assigned to the specify flag if parent variable is marked (e.g., S9903K = 2) and text is entered in the write-in box.

   3 *Invalid continuation*
   Assigned to the specify flag if the respondent selected a valid response option other than the *Other* response (e.g., S9903A-S9903J=2), but the write-in box contains text.

   4 *Invalid skip*
   Assigned to the specify flag if the respondent selected the *Other* response option (e.g., S9903K = 2), but no text is entered in the write-in box.

   A specify flag value of 1 or 2 thus indicates consistency in the respondent's answers. Other values reflect some inconsistency in the responses and suggest the parent item should be further evaluated before analysis.

   Details for each specify flag variable are illustrated in Table D-5 and show the values of the specify flag variables based on the values of the parent variables and whether the respondent entered anything in the write-in box. The first column might be thought of as "IF" part of an "IF-THEN" statement which sets the value for the specify flag based on the second and third columns. The following is an example of a coding note for a specify flag variable.

   S9903SP

S9903K value after first edit step	text in box	
	yes	no
1 (not marked)	3 (Invalid continuation)	1 (Valid skip)
2 (marked)	2 (Valid continuation)	4 (Invalid skip)

2. **SKIP FLAGS.** A flag variable with a name ending in 'SK' is generated for the parent variable (also sometimes knows as the screening item) of each skip pattern. For example, Question 6 (Member) has the skip flag M9906SK and the regular variable M9906. Skip flags are useful for evaluating the effectiveness of the skip pattern, and for screening out ambiguous response patterns during analysis.

The skip flag variables are coded with one of six values, similar to the specify flag variables:

1 *Valid skip*
Assigned to the skip flag if the parent variable indicates the respondent should skip a subsequent series of questions and responses are missing for all items in the skip pattern.

2 *Valid continuation*
Assigned to the skip flag if the parent variable indicates the respondent should continue and at least one of the items in the skip pattern has a valid response.

3 *Invalid continuation*
Assigned to the skip flag if the parent variable indicates the respondent should skip questions, but the respondent answered one or more items in the skip pattern.

4 *Invalid skip*
Assigned to the skip flag if the parent variable indicates the respondent should continue, but responses are missing for all items in the skip pattern.

-9 *Missing skip*
Assigned to the skip flag if the parent variable is missing and responses are missing for all items in the skip pattern.

-2 *Missing continuation*
Assigned to the skip flag if the parent variable is missing and at least one of the items in the skip pattern has a valid response.

Just as for the specify flags, tables are used to show the values of the skip flag variables based on the values of the parent variables and responses within the skip pattern. The first column might be thought of as the "IF" part of an "IF-THEN" statement which sets the value for the skip flag based on the second and third columns. Skip flag variables are shown in Table D-5. The following is an example of a coding note for a skip flag variable.

M9906SK

M9906 value after first edit step	M9907 value after first edit step	
	NE -9	EQ -9
2	3 (Invalid continuation)	1 (Valid skip)
1	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Special Codes for Skip Patterns

While an analyst can ignore discrepancies between a respondent's answer on an item containing a conditional direction to skip items and answers to those items, it is generally better to resolve the discrepancies. Two ways of resolving the discrepancies can be termed backward and forward coding. Backward coding[16] involves correcting the discrepancy by editing back from the skip pattern items to make the initial question conform. Forward coding involves correcting the discrepancy by editing forward from the initial question to make the skip pattern items conform. Data for this survey are forward coded with data on the starting question accepted as marked and data for the items within the skip pattern edited to be consistent with the starting question. The remainder of this section describes the logic behind coding of skip patterns.

To preserve all data before forward coding, the variables within skip patterns are first copied to a set of confidential variables. The naming convention for these variables is to start the name with "U" for Unedited. As stated earlier, skip flags that indicate if the skip directions were followed are created in step 3. Table D-3 introduced the general outline of the skip flags, but the specific flags for each skip pattern are specified in Table D-5[17]. The skip flags can be used to determine for which cases the unedited data differs from the cleaned data.

Table D-4 lists the special codes in the unedited variable that are used when there is a defined reason for an item not being applicable. In particular, values are assigned when the reason for an item being not applicable was defined as a valid response.

For this survey, in step 4 if a starting item is marked in such a way that the respondent should skip, items within the skip pattern have the "Not applicable" value (coded –6 or .N in SAS) assigned regardless of what the respondent marked on the items within the skip pattern. This value differentiates items with missing data because the items should have been skipped versus items where data are missing because the respondent should have answered but did not (coded –9 or . in SAS).

[16] Backward coding has been used in other recent DMDC surveys, such as the 1995 Sexual Harassment Surveys (Status of the Armed Forces Surveys Forms A-C) and the 1996 Equal Opportunity Survey (Status of the Armed Forces Surveys Form D).

[17] Table D-5 also provides special coding notes for other non-obvious codings.

Table D-4:
SAS® and Flat File Special Not Applicable Codes

SAS® File	Flat File	Description
60	60	*Does not apply (Q4-Member), (Q11-Spouse)*- no ship to shore rotation.
61	61	*Does not apply, (Q12-Member), have not received first assignment.*
62	62	*(Q21-Member), (Q62-Spouse), spouse/member not expected to be away from his/her permanent duty station.*
63	63	*Does not apply, (Q33-Member), I do not expect a promotion.*
64	64	*Does not apply, (Q33-Member), I have no opportunities for promotion.*
65	65	*Does not apply, (Q34-Member), I don't have a spouse or girlfriend/ boyfriend.*
66	66	*Does not apply, (Q35-Member), I have 20 or more years of service.*
67	67	*Does not apply, (Q38-Member), I am a member of a National Guard or Reserve unit.*
68	68	*Does not apply, (Q38-Member), retiring or otherwise ineligible.*
69	69	*Not available, (Q52A-Member), (Q38A-Spouse),on base program, facility or service*
70	70	*Not available, (Q52B-Member), (Q38B-Spouse), off base program, facility or service.*
71	71	*Does not apply, (Q99-Member), I have already served 10 years.*
72	72	*Does not apply, (Q99 & 100-Member), I already intended to stay*
73	73	*Does not apply, (Q100-Member), I entered the service before August 1, 1986.*

Table D-5:
Detailed Coding Notes

Note Coding instructions and codebook specifications

1. **M9906SK, UM0007.** M9906SK is a skip flag variable.

M9906 value after first edit step	M9907 value after first edit step	
	NE -9	EQ -9
2	3 (Invalid continuation)	1 (Valid skip)
1	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9906SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 1, in Appendix D."

UM9907 is equal to M9907, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9906 = 2 then M9907 = -6 (Not applicable*)*

2. **M9912SK, UM9913A—UM9913Z.** M9912SK is a skip flag variable.

M9912 value after first edit step	M9913A - M9913Z values after first edit step	
	at least one NE -9	all EQ -9
61	3 (Invalid continuation)	1 (Valid skip)
Any value in the range of 1-10	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9912SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 2, in Appendix D."

UM9913A—UM9913Z is equal to M9913A - M9913Z, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9912 = 61 then M9913A - M9913Z = -6 (Not applicable)

3. **M9914SK, UM9915, UM9916A-UM9916J, UM9917, UM9918A-UM9918T.** M9914SK is a skip flag variable.

M9914 value after first edit step	M9915, M9916A-M9916J, M9917, M9918A-M9918T values after first edit step	
	at least one NE -9	all EQ -9
2	3 (Invalid continuation)	1 (Valid skip)
1	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9914SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 3, in Appendix D."

For the mark-all-that-apply variable series M9918A - M9918T are coded as 1 (Not marked), 2 (Marked), or -99 (Missing Skip of Series).

UM9915, UM9916A-UM9916J, UM9917, UM9918A-UM9918T is equal to M9915, M9916A-M9916J, M9917, M9918A-M9918T, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9918A - M9918T = -99 then M9918A - M9918T = 1 (Not marked)

If M9914 = 2 then M9915 - M9917 = 0 (None)
If M9914 = 2 then M9918A - M9918T = -6 (Not applicable)

4. **M9918SP.** This is a specify flag variable.

M9918T value after first edit step	text in box	
	yes	no
1 (Not Marked)	3 (Invalid continuation)	1 (Valid skip)
2 (Marked)	2 (Valid continuation)	4 (Invalid skip)

Codebook page for M9918SP should note:

"This is a specify flag indicating the result of checking the write-in box for marks and checking the parent item to see if the *Other* response option was selected. See Table D-5, Note 4, in Appendix D."

5. **M9926SK, UM9927.** M9926SK is a skip flag variable.

M9926 value after first edit step	M9927 value after first edit step	
	NE -9	EQ -9
2	3 (Invalid continuation)	1 (Valid skip)
1	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9926SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 5, in Appendix D."

UM9927 is equal to M9927, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9926 = 2 then M9927 = -6 (Not applicable)

6. **M9929SK, UM9930—UM9931.** M9929SK is a skip flag variable.

M9929 value after first edit step	M9930 - M9931 values after first edit step	
	At least one NE -9	all EQ -9
1	3 (Invalid continuation)	1 (Valid skip)
any value in the range of 2- 4	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9929SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 6, in Appendix D."

UM9930—UM9931 is equal to M9930 - M9931, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9929 = 1 then M9930-M9931 = -6 (Not applicable)

7. **M9936**

Codebook page for M9936 should note: "Codes are too numerous to list here. The values for this variable range from < minimum value> to < maximum value>."

8. **M9954SKA, UM9955A – UM9955P.** M9954SKA is a skip flag variable.

SRMARST value after first edit step	M9955A - M9955P, PREDUCA - PREDUCH values after first edit step	
	at least one NE -9	all EQ -9
3 or 4	3 (Invalid continuation)	1 (Valid skip)
1 or 2	2 (Valid continuation)	4 (Invalid skip)
5	-6 (Not applicable)	-6 (Not applicable)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9954SKA should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 8, in Appendix D."

For the mark-all-that-apply variable series M9955A - M9955P are coded as 1 (Not marked), 2 (Marked), or -99 (Missing Skip of Series).

UM9955A – UM9955P is equal to M9955A - M9955P, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9955A - M9955P = -99 then M9955A - M9955P = 1 (Not marked)

If SRMARST = 3 or 4 or 5 then M9955A - M9955P = -6 (Not applicable)

9. **M9954SKB, UM9957.** M9954SKB is a skip flag variable.

SRMARST value after first edit step	M9957 value after first edit step	
	at least one NE -9	all EQ -9
5	3 (Invalid continuation)	1 (Valid skip)
1 or 2	2 (Valid continuation)	4 (Invalid skip)
3 or 4	-6 (Not applicable)	-6 (Not applicable)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9954SKB should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 9, in Appendix D."

UM9957 is equal to M9957, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If SRMARST = 5 then M9957 = -6 (Not applicable)

10. **M9955SP.** This is a specify flag variable.

UM9955P value after first edit step	text in box	
	yes	no
1 (Not Marked)	3 (Invalid continuation)	1 (Valid skip)
2 (Marked)	2 (Valid continuation)	4 (Invalid skip)

Codebook page for M9955SP should note:

"This is a specify flag indicating the result of checking the write-in box for marks and checking the parent item to see if the Other response option was selected. See Table D-5, Note 10, in Appendix D."

11. **PREDUC, PREDUCA-PREDUCH, PREDUCHI, UPREDUC, UPREDUCA-UPREDUCH, UPREDHI.** Also see note 8. Although this item asks for one (highest grade or degree) response, respondents frequently mark multiple response. **PREDUC** is coded as a standard mark one item while PREDUCA-PREDUCH are coded as a mark-all-that-apply. PREDUCA-PREDUCH are coded as 1 (Not marked), 2 (Marked), or -99 if none are marked. **PREDUCHI** equals PREDUC except in those cases where PREDUC has a value of -8 (multiple response error). Where PREDUC = -8, PREDUCHI is constructed from PREDUCA-PREDUCH and coded from 1-8 to represent the highest education marked (i.e., response option selected furthest down the list). **UPREDUC, UPREDUCA-UPREDUCH, UPREDHI** is equal to PREDUC, PREDUCA-PREDUCH, PREDUCHI but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

Codebook pages for PREDUC, PREDUCA-PREDUCH, PREDUCHI should note: "Although this item asks for one (highest grade or degree) response, respondents frequently mark multiple responses. PREDUC is coded as a standard mark one item while PREDUCA-PREDUCH are coded as a mark-all-that-apply. PREDUCHI equals PREDUC except where PREDUC has a multiple response error, PREDUCHI has the code of the highest education level that was marked. See Table D-5, Note 11, in Appendix D."

If SRMARST = 3 or 4 or 5 then PREDUC - PREDUCHI = -6 (Not applicable)

12. **M9958SK, UM9959A—UM9961G, UM9962A-UM9962R, UM9963, UM9964A-UM9964B, UM9965, UM9966A-UM9966M, UM9967-UM999970, UM9971A-UM9971G, UM9972A-UM9972F.** M9958SK is a skip flag.

M9958 value after first edit step	M9959A—M9961G, M9962A-M9962R, M9963, M9964A-M9964B, M9965, M9966A-M9966M, M9967-M999970, M9971A-UM9971G, M9972A-M9972F values after first edit step	
	at least one NE -9	all EQ -9
2	3 (Invalid continuation)	1 (Valid skip)
1	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9958SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 12, in Appendix D."

For the mark-all-that-apply variable series M9962A - M9962R, M9966A - M9966M and M9972A - M9972F are coded as 1 (Not marked), 2 (Marked), or -99 (Missing Skip of Series).

UM9959A—UM9961G, UM9962A-UM9962R, UM9963, UM9964A-UM9964B, UM9965, UM9966A-UM9966M, UM9967-UM999970, UM9971A-UM9971G, UM9972A-UM9972F is equal to M9959A—M9961G, M9962A-M9962R, M9963, M9964A-M9964B, M9965, M9966A-M9966M, M9967-M999970, M9971A-UM9971G, M9972A-M9972F but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9962A - M9962R = -99 then M9962A - M9962R = -9 (No response)
If M9966A - M9966M = -99 then M9966A - M9966M = 1 (Not marked)
If M9972A - M9972F = -99 then M9972A - M9972F = -9 (No response)

If M9958 = 2 then M9959A - M9961G = 0 (None/Not applicable)
If M9958 = 2 then M9962A - M9962R = -6 (Not applicable)

If M9958 = 2 or M9962A = 2 then M9963-M9964A = -6 (Not applicable)

If M9958 = 2 or M9962A = 2 or M9964A = 2 then M9964B = -6 (Not applicable)

If M9958 = 2 or M9962A = 2 or M9965= 2 then M9966A-M9967 = -6(Not applicable)

If M9958 = 2 then M9968 = -6 (Not applicable)

If M9958 = 2 or M9968 = 2 then M9969 = -6(Not applicable)

If M9958 = 2 or M9968 = 2 or M9969 = 1 then M9970 = -6 (Not applicable)
If M9958 = 2 or M9968 = 2 or M9969 = 1 then M9971A-M9971G = -6 (Not applicable)
If M9958 = 2 or M9968 = 2 or M9969 = 1 then M9972A-M9972F = -6 (Not applicable)

13. **M9962ASK.** M9962ASK is a skip flag. Also see note 12.

M9962A value after first edit step	M9962B - M9962R, M9963, M9964A-M9964B, M9965, M9966A-M9966M, M9967 values after first edit step	
	at least one NE -9	all EQ -9
2 (Marked)	3 (Invalid continuation)	1 (Valid skip)
1 (Not Marked)	2 (Valid continuation)	4 (Invalid skip)
-9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9962ASK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 13, in Appendix D."

14. **M9964ASK.** M9964ASK is a skip flag. Also see notes 12 and 13.

M9964A value after first edit step	M9964B value after first edit step	
	NE -9	EQ –9
2 (Marked)	3 (Invalid continuation)	1 (Valid skip)
1 (Not Marked)	2 (Valid continuation)	4 (Invalid skip)
-9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9964ASK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 14, in Appendix D."

15. **M9964B.**

Codebook page for M9964B should note: "Codes are too numerous to list here. The values for this variable range from < minimum value> to < maximum value>."

16. **M9965SK.** M9965SK is a skip flag. Also see notes 12 and 13.

M9965 value after first edit step	M9966A - M9967 values after first edit step	
	at least one NE –9	all EQ -9
2	3 (Invalid continuation)	1 (Valid skip)
1	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9965SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 16, in Appendix D."

17. **M9966SP.** This is a specify flag variable.

M9966M value after first edit step	text in box	
	yes	no
1 (Not Marked)	3 (Invalid continuation)	1 (Valid skip)
2 (Marked)	2 (Valid continuation)	4 (Invalid skip)

Codebook page for M9966SP should note:

"This is a specify flag indicating the result of checking the write-in box for marks and checking the parent item to see if the *Other* response option was selected. See Table D-5, Note 17, in Appendix D."

18. **M9968SK.** M9968SK is a skip flag. Also see note 12.

M9968 value after first edit step	M9969 - M9972F values after first edit step	
	at least one NE -9	all EQ -9
2	3 (Invalid continuation)	1 (Valid skip)
1	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip of series)

Codebook page for M9968SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 18, in Appendix D."

19. **M9969SK.** M9969SK is a skip flag. Also see notes 12 and 18.

M9969 value after first edit step	M9970, M9971A- M9971G, M9972A- M9972F values after first edit step	
	at least one NE -9	all EQ -9
1	3 (Invalid continuation)	1 (Valid skip)
Any value in the range of 2-9	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9969SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 19, in Appendix D."

20. **M9969SP.** This is a specify flag variable.

M9969 value after first edit step	text in box	
	yes	no
Any value in the range of 1-8	3 (Invalid continuation)	1 (Valid skip)
9	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9969SP should note:

"This is a specify flag indicating the result of checking the write-in box for marks and checking the parent item to see if the *Other* response option was selected. See Table D-5, Note 20, in Appendix D."

21. **M9970**

Codebook page for M9970 should note: "Codes are too numerous to list here. The values for this variable range from < minimum value> to < maximum value>."

22. **M9974SK, UM9975 - UM9976.** M9974SK is a skip flag.

M9974 value after first edit step	M9975 - M9976 values after first edit step	
	at least one NE -9	all EQ -9
2	3 (Invalid continuation)	1 (Valid skip)
1	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9974SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 22, in Appendix D."

UM9975 - M9976 is equal to M9975 - M9976, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9974 = 2 then M9975 - M9976 = -6 (Not applicable)

23. **M9977HSK, UM9977A - UM9977G.** M9977HSK is a skip flag.

M9977H value after first edit step	M9977A - M9977G values after first edit step	
	at least one NE -9	all EQ -9
2 (Marked)	3 (Invalid continuation)	1 (Valid skip)
1 (Not Marked)	2 (Valid continuation)	4 (Invalid skip)

Codebook page for M9977HSK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 23, in Appendix D."

UM9977A - UM9977G is equal to M9977A - M9977G, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9977H = 2 then M9977A - M9977G = -6 (Not applicable)

24. **M9978SK, UM9979A – UM9979F.** M9978SK is a skip flag.

M9978 value after first edit step	M9979A – M9979F values after first edit step	
	at least one NE -9	all EQ -9
1	3 (Invalid continuation)	1 (Valid skip)
2	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9978SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 24, in Appendix D."

For the mark-all-that-apply variable series M9979A – M9979F are coded as 1 (Not marked), 2 (Marked), or -99 (Missing Skip of Series).

UM9979A – UM9979F is equal to M9979A – M9979F, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9979A – M9979F = -99 then M9979A – M9979F = -9 (No response)
If M9978 = 1 then M9979A – M9979F = -6 (Not applicable)

25. **M9981SK, UM9982A – UM9982L.** M9981SK is a skip flag.

M9981 value after first edit step	M9982A – M9982L values after first edit step	
	at least one NE -9	all EQ -9
1	3 (Invalid continuation)	1 (Valid skip)
2	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9981SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 25, in Appendix D."

For the mark-all-that-apply variable series M9982A – M9982L are coded as 1 (Not marked), 2 (Marked), or -99 (Missing Skip of Series).

UM9982A – UM9982L is equal to M9982A – M9982L, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9982A – M9982L = -99 then M9982A – M9982L = 1 (Not marked)
If M9981 = 1 then M9982A – M9982L = -6 (Not applicable)

26. **M9982SP.** This is a specify flag variable.

M9982L value after first edit step	text in box	
	yes	no
1 (Not Marked)	3 (Invalid continuation)	1 (Valid skip)
2 (Marked)	2 (Valid continuation)	4 (Invalid skip)

Codebook page for M9982SP should note:

"This is a specify flag indicating the result of checking the write-in box for marks and checking the parent item to see if the *Other* response option was selected. See Table D-5, Note 26, in Appendix D."

27. **M9985SK, UM9986.** M9985SK is a skip flag.

M9985 value after first edit step	M9986 value after first edit step	
	NE -9	EQ -9
2	3 (Invalid continuation)	1 (Valid skip)
1	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M9985SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 27, in Appendix D."

UM9986 is equal to M9986, but is unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9985 = 2 then M9986 = -6 (Not applicable)

28. **M9986**

Codebook page for M9986 should note: "Codes are too numerous to list here. The values for this variable range from < minimum value> to < maximum value>."

29. **M9987SP.** This is a specify flag variable.

M9987L value after first edit step	text in box	
	yes	no
1 (Not Marked)	3 (Invalid continuation)	1 (Valid skip)
2 (Marked)	2 (Valid continuation)	4 (Invalid skip)

Codebook page for M9987SP should note:

"This is a specify flag indicating the result of checking the write-in box for marks and checking the parent item to see if the *Other* response option was selected. See Table D-5, Note 29, in Appendix D."

30. **SRRACESP.** This is a specify flag variable.

SRRACEF value after first edit step	text in box	
	yes	no
1 (Not Marked)	3 (Invalid continuation)	1 (Valid skip)
2 (Marked)	2 (Valid continuation)	4 (Invalid skip)

Codebook page for SRRACESP should note:

"This is a specify flag indicating the result of checking the write-in box for marks and checking the parent item to see if the *Other* response option was selected. See Table D-5, Note 30, in Appendix D."

31. **M99105**, **M99105A-M99105H, M99105HI.** Although this item asks for one (highest grade or degree) response, respondents frequently mark multiple response. **M99105** is coded as a standard mark one item while M99105A-M99105H are coded as a mark-all-that-apply. **M99105A-M99105H** are coded as 1 (Not marked), 2 (Marked), or -99 if none of the items are marked. **M99105HI** equals M99105 except in those cases where M99105 has a value of -8 (multiple response error), M99105HI has the code of the highest education level that was marked.

Codebook pages for M99105, M99105A-M99105H, M99105HI should note: "Although this item asks for one (highest grade or degree) response, respondents frequently mark multiple responses. M99105 is coded as a standard mark one item while M99105A-M99105H are coded as a mark-all-that-apply. M99105HI equals M99105 except where M99105 has a multiple response error, M99105HI has the code of the highest education level that was marked. See Table D-5, Note 31, in Appendix D."

32. **SRED**, **SREDA-SREDH, SREDHI.** Although this item asks for one (highest grade or degree) response, respondents frequently mark multiple response. **SRED** is coded as a standard mark one item while SREDA-SREDH are coded as a mark-all-that-apply. **SREDA-SREDH** are coded as 1 (Not marked), 2 (Marked), or -99 if none of the items are marked. **SREDHI** equals SRED except in those cases where SRED has a value of -8 (multiple response error), SREDHI has the code of the highest education level that was marked.

Codebook pages for SRED, SREDA-SREDH, SREDHI should note: "Although this item asks for one (highest grade or degree) response, respondents frequently mark multiple responses. SRED is coded as a standard mark one item while SREDA-SREDH are coded as a mark-all-that-apply. SREDHI equals SRED except where SRED has a multiple response error, SREDHI has the code of the highest education level that was marked. See Table D-5, Note 32, in Appendix D."

33. **M99107SK.** This is a skip flag.

M99107 value after first edit step	SRSVC and SRGRADE values after first edit step	
	at least one NE -9	all EQ -9
4	3 (Invalid continuation)	1 (Valid skip)
any value in the range of 1-3	2 (Valid continuation)	4 (Invalid skip)
-8, -9	-2 (Missing continuation)	-9 (Missing skip)

Codebook page for M99107SK should note:

"This is a skip flag indicating the result of checking the response on the parent (screening) item against the response(s) on the items within the skip pattern. See Table D-5, Note 33, in Appendix D."

34. **M99110**

Codebook page for M99110 should note: "Codes are too numerous to list here. The values for this variable range from < minimum value> to < maximum value>."

35. **SRDATE**

Codebook pages for SRDATE should note: "Codes are too numerous to list here. The values for this variable range from < minimum value> to < maximum value>."

36. **UM9903A-UM9903P, UM9910A-UM9910R, UM9923A-UM9923U, UM9948A-UM9948K, UM9984A-UM9984I, UM9987A-UM9987L, UM9996A-UM9996O.**

For the mark-all-that-apply variable series M9903A-M9903P, M9910A-M9910R, M9923A-M9923U, M9948A-M9948K, M9984A-M9984I, M9987A-M9987L, M9996A-M9996O, and SRRACEA-SRRACEF are coded as 1 (Not marked), 2 (Marked), or -99 (Missing Skip of Series).

UM9903A-UM9903P, UM9910A-UM9910R, UM9923A-UM9923U, UM9948A-UM9948K, UM9984A-UM9984I, UM9987A-UM9987L, and UM9996A-UM9996O are equal to M9903A-M9903P, M9910A-M9910R, M9923A-M9923U, M9948A-M9948K, M9984A-M9984I, M9987A-M9987L, and M9996A-M9996O but are unedited for forward coding of non-applicable response values. After creating the unedited variables:

If M9903A-M9903P = -99 then M9903A-M9903P = -9 (No response)

If M9910A-M9910R = -99 then M9910A-M9910R = 1 (Not marked)

If M9923A-M9923U = -99 then M9923A-M9923U = 1 (Not marked)

If M9948A-M9948K = -99 then M9948A-M9948K = -9 (No response)

If M9984A-M9984I = -99 then M9984A-M9984I = -9 (No response)

If M9987A-M9987L = -99 then M9987A-M9987L = 1 (Not marked)

If M9996A-M9996O = -99 then M9996A-M9996O = -9 (No response)

37. *COMMENT*

COMMENT has two codes.

2 *Text entered*
is assigned if something is written in the space provided for comments.

1 *No text entered*
is assigned if nothing is written in the space provided for comments.

Appendix E

Alphabetical Variable List for the Survey Analysis Files

In the alphabetical variable list, an asterisk indicates variables that appear only on the confidential dataset.

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
AD1CL		Non-Response Adjust Cell	450
AD1F0		FS Unk Elig NonResponse Adj Factor	451
AD1W0		FS Unk Elig NonResponse Adj Weight	452
AD2F0		FS Elig NonRespondent Adj Factor	453
AD2W0		FS Elig NonRespondent Adj Weight	454
AGE_M*		Sample member's current age (as of 5/31/99)	1178-1179
ARVDATE*		Arrival date	1156-1158
BAQ*		Member's Bsc Allwnce for Qrtrs Status Code	1180
BATCH*		DRC Batch number applied for scanning	1159-1165
BLKREAS*		Reason Survey Returned Blank	1166
BSWGT0		Form A Base Weight	455
CCONUS*		Constructed location group/Conus/Oconus	1181
COMMENT	112.	Comments or concerns not answered	448
CPAYGRP1*		Constructed Pay Grade 1	1182
CPAYGRP2*		Constructed Pay Grade 2	1183
CPAYGRP3*		Constructed Pay Grade 3	1184
CQ39*		Questions Q39A-Q39KK Completeness Indicator	1223
CQ50*		Questions Q50A-Q50M Completeness Indicator	1224
CQ52*		Questions Q52A01-Q52B13 Completeness Indctr	1225
CRACECAT*		Constructed Race Ethnic Category 2	1185
CREGINS		Constructed location group/region	699
CSERVICE*		Sample Member's constructed service	1186
DEPLOY*		Sample Member Deployment Indicator	1188
DEPR*		Member's nmbr of dpndnts reported in DEERS	1189
DMDC_ID		Sample member identification number	449
DUPRET*		Multiple Returns -- Excludes Blanks	1167
DUPRET2*		Multiple Returns -- Includes Blanks	1168
D_ELIG*		Combined DEERS eligibility	1187
EDUC*		Sample member's education	1190-1191
EER_M*		DEERS End Eligibility Reason	1192
ELGCDE_M*		DEERS eligibility code	1193
ELIGFLGW		Eligibility Flag for Poststratification	456
ETH*		Sample member ethnic group code	1194
ETSDATE*		Sample member's ETS date	1195
FCODE		Sample member's form code	700
FILEFLG		File flag Active/Reservist	701
FLAG_FIN*		Final disposition flag	1226
INRECNO*		Master SCS ID number	1169
JOINT		Constructed marital stts/jnt svc marriage	702
LITHO*		Survey Mail Identification Number	1170
LOCATIN*		Constructed location group/territory	1196
M9901	1.	Past yr hrs/wk you worked	1
M9902	2.	Last workweek hours you worked	2
M9903A	3A.	Wk mr 12 mo reas, n/a	3
M9903B	3B.	Wk mr 12 mo reas, mission crit require	4

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
M9903C	3C.	Wk mr 12 mo reas, mission prep/trng/mnt	5
M9903D	3D.	Wk mr 12 mo reas, addl duties/spec proj	6
M9903E	3E.	Wk mr 12 mo reas, unit prep deployment	7
M9903F	3F.	Wk mr 12 mo reas, insuff billets	8
M9903G	3G.	Wk mr 12 mo reas, unit under-manned	9
M9903H	3H.	Wk mr 12 mo reas, part of unit deployed	10
M9903I	3I.	Wk mr 12 mo reas, demanding supervisor	11
M9903J	3J.	Wk mr 12 mo reas, prob w/subordinates	12
M9903K	3K.	Wk mr 12 mo reas, high workload	13
M9903L	3L.	Wk mr 12 mo reas, poor/lack planning	14
M9903M	3M.	Wk mr 12 mo reas, others not working	15
M9903N	3N.	Wk mr 12 mo reas, inspects/inspect prep	16
M9903O	3O.	Wk mr 12 mo reas, equip failure/repairs	17
M9903P	3P.	Wk mr 12 mo reas, none of the above	18
M9904*	4.	Currently assngd to ship or shore duty	723
M9905*	5.	Where perm duty station located	724
M9906	6.	Current dplmt keep you away over month	19
M9906SK	6SK.	Current dplmt keep you away over month-SK	20
M9907*	7.	Where currently deployed	725
M9908	8.	Where do you live at your perm dty stn	21
M9909A	9A.	Sat w/ curr dty resd/cmty: Cst of resdnc	22
M9909B	9B.	Sat w/ curr dty resd/cmty: Qlty/cond rsd	23
M9909C	9C.	Sat w/ curr dty resd/cmty: Amt space	24
M9909D	9D.	Sat w/ curr dty resd/cmty: Pvcy of rsdnc	25
M9909E	9E.	Sat w/ curr dty resd/cmty: Qlty area hsg	26
M9909F	9F.	Sat w/ curr dty resd/cmty: Sfty lv area	27
M9909G	9G.	Sat w/ curr dty resd/cmty: Dist to work	28
M9909H	9H.	Sat w/ curr dty resd/cmty: Dist to shppg	29
M9909I	9I.	Sat w/ curr dty resd/cmty: Dist rec ars	30
M99100	100.	Rtrmnt pay formula chngd, wld stay	444
M99105*	105.	At time first active amt educ completed	1120
M99105A*	105A.	Edu whn fst active: 11th or less	1121
M99105B*	105B.	Edu whn fst active: 12 yrs,no diploma	1122
M99105C*	105C.	Edu whn fst active: HS graduate	1123
M99105D*	105D.	Edu whn fst active: Some college crdt	1124
M99105E*	105E.	Edu whn fst active: 1/more yr college	1125
M99105F*	105F.	Edu whn fst active: Associate degree	1126
M99105G*	105G.	Edu whn fst active: Bachelor's degree	1127
M99105H*	105H.	Edu whn fst active: Master's,doct,prof	1128
M99105HI*	105HI.	Highest level of educ when first actv	1129
M99107*	107.	Current serv active duty or Grd/Reserve	1140
M99107SK	107SK.	Crnt serv act dty or Grd/Rsrv-SK	446
M9910A	10A.	Choose res - no choice	31
M9910B	10B.	Choose res - best value for money	32
M9910C	10C.	Choose res - safety and security	33

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
M9910D	10D.	Choose res - close to workplace	34
M9910E	10E.	Choose res - close to base, svcs, progs	35
M9910F	10F.	Choose res - spouses choice	36
M9910G	10G.	Choose res - better schools	37
M9910H	10H.	Choose res - fewer rules	38
M9910I	10I.	Choose res - privacy	39
M9910J	10J.	Choose res - want spec area/community	40
M9910K	10K.	Choose res - available right away	41
M9910L	10L.	Choose res - mil housing unavailable	42
M9910M	10M.	Choose res - civilian housing unavail	43
M9910N	10N.	Choose res - better than mil on/off base	44
M9910O	10O.	Choose res - better than civ housing	45
M9910P	10P.	Choose res - wanted military neighbors	46
M9910Q	10Q.	Choose res - wanted civilian neighbors	47
M9910R	10R.	Choose res - other	48
M9911	11.	If same cost pref civil or military hsg	49
M99110*	110.	Hw many yrs active duty srvc completed	1143
M9912	12.	During act dty nbr of stn chngs	50
M9912SK	12SK.	During act dty nbr of stn chngs-SK	51
M9913A	13A.	Rec PCS prob, change in PCS date	52
M9913B	13B.	Rec PCS prob, hr of PCS assist ofc	53
M9913C	13C.	Rec PCS prob, wait for perm house	54
M9913D	13D.	Rec PCS prob, sell/rent frmr rsdnc	55
M9913E	13E.	Rec PCS prob, buy/rent crrnt rsdnc	56
M9913F	13F.	Rec PCS prob, time to prepare move	57
M9913G	13G.	Rec PCS prob, ship/store hshld good	58
M9913H	13H.	Rec PCS prob, TAD/TDY en route	59
M9913I	13I.	Rec PCS prob, temp lodge expense	60
M9913J	13J.	Rec PCS prob, cost of scrty dpst	61
M9913K	13K.	Rec PCS prob, cost to move pets	62
M9913L	13L.	Rec PCS prob, cost to move vhcle	63
M9913M	13M.	Rec PCS prob, cost new pnt/carpet	64
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M9982J*	82J.	No fam, health/illness of family member	1056
M9982K*	82K.	No fam, eldercare responsibilities	1057
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MA952B09		Availability of clubs/dance/night clubs	273
MA952B10		Availability of comm/supermkt/grocery	274
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MA952B12		Availability of social activities	276
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PSW168		Final Postratif Weight for Replicate 168	536
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PSW170		Final Postratif Weight for Replicate 170	539
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PSW19		Final Postratif Weight for Replicate 19	541
PSW2		Final Postratif Weight for Replicate 2	542
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PSW21		Final Postratif Weight for Replicate 21	544
PSW22		Final Postratif Weight for Replicate 22	545
PSW23		Final Postratif Weight for Replicate 23	546
PSW24		Final Postratif Weight for Replicate 24	547
PSW25		Final Postratif Weight for Replicate 25	548
PSW26		Final Postratif Weight for Replicate 26	549
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PSW47		Final Postratif Weight for Replicate 47	572
PSW48		Final Postratif Weight for Replicate 48	573
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PSW5		Final Postratif Weight for Replicate 5	575
PSW50		Final Postratif Weight for Replicate 50	576
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PSW53		Final Postratif Weight for Replicate 53	579
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PSW55		Final Postratif Weight for Replicate 55	581
PSW56		Final Postratif Weight for Replicate 56	582
PSW57		Final Postratif Weight for Replicate 57	583
PSW58		Final Postratif Weight for Replicate 58	584
PSW59		Final Postratif Weight for Replicate 59	585
PSW6		Final Postratif Weight for Replicate 6	586
PSW60		Final Postratif Weight for Replicate 60	587
PSW61		Final Postratif Weight for Replicate 61	588
PSW62		Final Postratif Weight for Replicate 62	589
PSW63		Final Postratif Weight for Replicate 63	590
PSW64		Final Postratif Weight for Replicate 64	591
PSW65		Final Postratif Weight for Replicate 65	592
PSW66		Final Postratif Weight for Replicate 66	593
PSW67		Final Postratif Weight for Replicate 67	594
PSW68		Final Postratif Weight for Replicate 68	595
PSW69		Final Postratif Weight for Replicate 69	596
PSW7		Final Postratif Weight for Replicate 7	597
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PSW72		Final Postratif Weight for Replicate 72	600
PSW73		Final Postratif Weight for Replicate 73	601
PSW74		Final Postratif Weight for Replicate 74	602
PSW75		Final Postratif Weight for Replicate 75	603
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PSW77		Final Postratif Weight for Replicate 77	605
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PSW84		Final Postratif Weight for Replicate 84	613
PSW85		Final Postratif Weight for Replicate 85	614
PSW86		Final Postratif Weight for Replicate 86	615
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PSW89		Final Postratif Weight for Replicate 89	618
PSW9		Final Postratif Weight for Replicate 9	619
PSW90		Final Postratif Weight for Replicate 90	620
PSW91		Final Postratif Weight for Replicate 91	621
PSW92		Final Postratif Weight for Replicate 92	622
PSW93		Final Postratif Weight for Replicate 93	623
PSW94		Final Postratif Weight for Replicate 94	624
PSW95		Final Postratif Weight for Replicate 95	625
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R2XRETH1		Constructed Race Ethnicity: 5 level-Recoded	691
RACECAT*		Sample member's race code	1212
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REFUSE*		Refusals	1173
RETH*		Sample Member's race ethnic code	1213
RM9105HI	105HI.	Recode: highest educ at time of AD	692
RM955ABC	55ABC.	Recode: Sp curr actv duty/Natl G/Res/other	653
RM955DFH	55DFH.	Recode: Sp curr Fed Civ job/Civ job onbase	654
RM955EGI	55EGI.	Recode: Sp curr Fed Civ/Civ job/offbase PT	655
RM955JK	55JK.	Recode: Sp curr Fam business or self-employ	656
RM955L	55L.	Recode: Sp curr unemployed, look for work	657
RM955M	55M.	Recode: Sp curr in school	658
RM955N	55N.	Recode: Sp curr homemaker/hswife/hshusband	659
RM955O	55O.	Recode: Sp curr retired	660
RM955P	55P.	Recode: Sp curr other (specify)	661
RM9904	4.	Recode: currently assigned ship or shore	633
RM9907	7.	Recode: where currently deployed	635
RM99107	107	Recode: curr on act duty/guard/reserve	694
RM99110	110	Recode: number yrs AD service	698
RM9916A	16A.	Recode: 12 mo away, peacekp/conting	636
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RM9916F	16F.	Recode: 12 mo away, sched sea deploy	641
RM9916G	16G.	Recode: 12 mo away, other sea time	642
RM9916H	16H.	Recode: 12 mo away, joint trng/field	643
RM9916I	16I.	Recode: 12 mo away, military educ	644
RM9916J	16J.	Recode: 12 mo away, other TADs/TDYs	645
RM9917	17.	Recode: total time away for mil duty	646
RM9929	29.	Recode: term of service serving now	647
RM9930	30.	Recode: time remain in curr term/oblig	648
RM9936	36.	Recode: total expected years of service	649
RM9953C	53C.	Recode: use svcs, tech/voc programs	650
RM9953D	53D.	Recode: use svcs, basic skills educ	651
RM9957	57.	Recode: how many times divorced	663
RM9959A	59A.	Recode: number children under 1 year	664
RM9959B	59B.	Recode: number children 1-2 years	665
RM9959C	59C.	Recode: number children 2-5 years	666
RM9959D	59D.	Recode: number children 6-13 years	667
RM9959E	59E.	Recode: number children 14-22 years	668
RM9959FG	59FG.	Recode: number children 23 years +	669
RM9960A	60A.	Recode: children/home, under 1 year	670
RM9960B	60B.	Recode: children/home, 1-2 years	671
RM9960C	60C.	Recode: children/home, 2-5 years	672
RM9960D	60D.	Recode: children/home, 6-13 years	673
RM9960E	60E.	Recode: children/home, 14-22 years	674
RM9960FG	60FG.	Recode: children/home, 23 years +	675
RM9961AC	61AC.	Recode: children/away, up to 5 years	676
RM9961D	61D.	Recode: children/away, 6-13 years	677
RM9961E	61E.	Recode: children/away, 14-22 years	678
RM9961FG	61FG.	Recode: children/away, 23 years +	679
RM9964B	64B.	Recode: monthly childcare expense	680
RM9969	69.	Recode: type of school youngest child	681
RM9970	70.	Recode: hrs/week	682
RM9973	73.	Recode: chld/sp/legal dep in EFMP/CG Sp Nds	683
RM9982B	82B.	Recode: no fam, legal separation or divorce	684
RM9982CF	82CF.	Recode: temp/perm unaccompanied	685
RM9982GL	82GL.	Recode: unaccompanied due to sp/ch	686
RM9983	83.	Recode: number of times family moved	687
RM9984D	84D.	Recode: mil rel, son or daughter	688
RM9986	86.	Recode: hrs/wk civ job/own bus	689
RPREDHI	56HI.	Recode: Sp highest education	662
RSREDHI	106H.	Recode: member highest education	693
RSTATUSA*		Assigned disposition of a sample record	1231
SCANDATE*		Date Survey Scanned	1174-1175
SCSINEL*		Flagged Ineligible in Survey Control System	1176

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SEX_M*		Member's gender	1215
SHIP*		Sample member's ship indctr code (MC only)	1216
SINGPAR*		Constructed single parent indicator	1217
SMPTVSTR		Taylor's series achieved smp size in var	630
SOC*		Member's Source of Commission (Offcrs only)	1218-1219
SRDATE	111.	What date complete survey	447
SRDATEDD*	111DD.	What date complete survey, day	1145-1146
SRDATEMM*	111MM.	What date complete survey, month	1144
SRDATEYY*	111YY.	What date complete survey, year	1147
SRED*	106.	Hghst lvl edu that you've cmpltd	1130
SREDA*	106A.	Hghst lvl edu: 11th grade or less	1131
SREDB*	106B.	Hghst lvl edu: 12 years of school	1132
SREDC*	106C.	Hghst lvl edu: High school graduate	1133
SREDD*	106D.	Hghst lvl edu: Some college credit	1134
SREDE*	106E.	Hghst lvl edu: 1/more years of college	1135
SREDF*	106F.	Hghst lvl edu: Associate degree	1136
SREDG*	106G.	Hghst lvl edu: Bachelor's degree	1137
SREDH*	106H.	Hghst lvl edu: Master's,doctoral,prof	1138
SREDHI*	106H.	Hghst lvl edu that you've cmpltd	1139
SRESL	102.	Is English a second language for you?	445
SRGRADE*	109.	What is your current paygrade	1142
SRHISP*	103.	Are you Spanish/Hispanic/Latino	1112
SRMARST*	54.	What is your marital status	880
SRRACEA*	104A.	Race: White	1113
SRRACEB*	104B.	Race: Black or African-American	1114
SRRACEC*	104C.	Race: American Indian or Alaska Native	1115
SRRACED*	104D.	Race: Asian	1116
SRRACEE*	104E.	Race: Native Hawaiian or otr Pacific Is	1117
SRRACEF*	104F.	Some other race (specify):	1118
SRRACESP*	104SP.	What is your race-SP	1119
SRSEX*	101.	Are you:	1111
SRSVC*	108.	In what Service are you?	1141
STRAT*		Stratum Number	1220
TAFMS*		Total Active Federal Military Service	1221
TVSTR		Taylor's series variance strata	631
TVUNIT		Taylor Series Variance Unit	632
UM9903A*	U3A.	Uned wk mr 12 mo reas, n/a	707
UM9903B*	U3B	Uned wk mr 12 mo reas, mission crit require	708
UM9903C*	U3C.	Uned wk mr 12 mo reas, mission prp/trng/mnt	709
UM9903D*	U3D.	Uned wk mr 12 mo reas, addl duty/spec proj	710
UM9903E*	U3E.	Uned wk mr 12 mo reas, unit prep deployment	711
UM9903F*	U3F.	Uned wk mr 12 mo reas, insuff billets	712
UM9903G*	U3G.	Uned wk mr 12 mo reas, unit under-manned	713

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9903H*	U3H.	Uned wk mr 12 mo reas, part of unit deploy	714
UM9903I*	U3I.	Uned wk mr 12 mo reas, demanding supervisor	715
UM9903J*	U3J.	Uned wk mr 12 mo reas, prob w/subordinates	716
UM9903K*	U3K.	Uned wk mr 12 mo reas, high workload	717
UM9903L*	U3L.	Uned wk mr 12 mo reas, poor/lack planning	718
UM9903M*	U3M.	Uned wk mr 12 mo reas, others not working	719
UM9903N*	U3N.	Uned wk mr 12 mo reas, inspects/inspct prep	720
UM9903O*	U3O.	Uned wk mr 12 mo reas, equip failure/repair	721
UM9903P*	U3P.	Uned wk mr 12 mo reas, none of the above	722
UM9907*	U7.	Uned where currently deployed	726
UM9910A*	U10A.	Uned choose res - no choice	727
UM9910B*	U10B.	Uned choose res - best value for money	728
UM9910C*	U10C.	Uned choose res - safety and security	729
UM9910D*	U10D.	Uned choose res - close to workplace	730
UM9910E*	U10E.	Uned choose res - close to base, svcs, prog	731
UM9910F*	U10F.	Uned choose res - spouses choice	732
UM9910G*	U10G.	Uned choose res - better schools	733
UM9910H*	U10H.	Uned choose res - fewer rules	734
UM9910I*	U10I.	Uned choose res - privacy	735
UM9910J*	U10J.	Uned choose res - want spec area/community	736
UM9910K*	U10K.	Uned choose res - available right away	737
UM9910L*	U10L.	Uned choose res - mil housing unavailable	738
UM9910M*	U10M.	Uned choose res - civilian housing unavail	739
UM9910N*	U10N.	Uned choose res - btr than mil on/off base	740
UM9910O*	U10O.	Uned choose res - better than civ housing	741
UM9910P*	U10P.	Uned choose res - wanted military neighbors	742
UM9910Q*	U10Q.	Uned choose res - wanted civilian neighbors	743
UM9910R*	U10R.	Uned choose res - other	744
UM9913A*	U13A.	Uned rec PCS prob, change in PCS date	745
UM9913B*	U13B.	Uned rec PCS prob, hr of PCS assist office	746
UM9913C*	U13C.	Uned rec PCS prob, wait for perm house	747
UM9913D*	U13D.	Uned rec PCS prob, sell/rent frmr rsdnc	748
UM9913E*	U13E.	Uned rec PCS prob, buy/rent crrnt rsdnc	749
UM9913F*	U13F.	Uned rec PCS prob, time to prepare move	750
UM9913G*	U13G.	Uned rec PCS prob, ship/store hshld gds	751
UM9913H*	U13H.	Uned rec PCS prob, TAD/TDY en route	752
UM9913I*	U13I.	Uned rec PCS prob, temp lodge expense	753
UM9913J*	U13J.	Uned rec PCS prob, cost of scrty dpst	754
UM9913K*	U13K.	Uned rec PCS prob, cost to move pets	755
UM9913L*	U13L.	Uned rec PCS prob, cost to move vhcle	756
UM9913M*	U13M.	Uned rec PCS prob, cost new pnt/carpet	757
UM9913N*	U13N.	Uned rec PCS prob, settle damage claims	758
UM9913O*	U13O.	Uned rec PCS prob, unpaid trans costs	759
UM9913P*	U13P.	Uned rec PCS prob, timeliness reimburse	760
UM9913Q*	U13Q.	Uned rec PCS prob, accuracy reimburse	761

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9913R*	U13R.	Uned rec PCS prob, time off at dest	762
UM9913S*	U13S.	Uned rec PCS prob, chng in cost of lvng	763
UM9913T*	U13T.	Uned rec PCS prob, loss/decrease sp pay	764
UM9913U*	U13U.	Uned rec PCS prob, spouse employment	765
UM9913V*	U13V.	Uned rec PCS prob, trnsfr entitlmnt py	766
UM9913W*	U13W.	Uned rec PCS prob, get special edu svcs	767
UM9913X*	U13X.	Uned rec PCS prob, sp/dep change schls	768
UM9913Y*	U13Y.	Uned rec PCS prob, trnsfr college crdts	769
UM9913Z*	U13Z.	Uned rec PCS prob, avail of child care	770
UM9915*	U15.	Uned past 12 mo, times away overnight	771
UM9916A*	U16A.	Uned 12 mo away, peacekping/contingency op	782
UM9916B*	U16B.	Uned 12 mo away, frgn humanitarian assist	783
UM9916C*	U16C.	Uned 12 mo away, unit trng-combat trng cntr	784
UM9916D*	U16D.	Uned 12 mo away, counter drug operation	785
UM9916E*	U16E.	Uned 12 mo away, domestic disaster/civ emer	786
UM9916F*	U16F.	Uned 12 mo away, scheduled deploy at sea	787
UM9916G*	U16G.	Uned 12 mo away, other time at sea	788
UM9916H*	U16H.	Uned 12 mo away, joint trng/field exercises	789
UM9916I*	U16I.	Uned 12 mo away, military education	790
UM9916J*	U16J.	Uned 12 mo away, other TADs/TDYs	791
UM9917*	U17.	Uned past 12 mo, total time away mil duty	793
UM9918A*	U18A.	Uned 12 mo concern, manage expenses/bills	794
UM9918B*	U18B.	Uned 12 mo concern, hh repair, cars, maint	795
UM9918C*	U18C.	Uned 12 mo concern, store/secure prsnl item	796
UM9918D*	U18D.	Uned 12 mo concern, pet care	797
UM9918E*	U18E.	Uned 12 mo concern, interrupt off duty educ	798
UM9918F*	U18F.	Uned 12 mo concern, loss of part time job	799
UM9918G*	U18G.	Uned 12 mo concern, able to commun w/family	800
UM9918H*	U18H.	Uned 12 mo concern, safety of fam in commun	801
UM9918I*	U18I.	Uned 12 mo concern, spouse job/educ demands	802
UM9918J*	U18J.	Uned 12 mo concern, childcare arrangements	803
UM9918K*	U18K.	Uned 12 mo concern, eldercare	804
UM9918L*	U18L.	Uned 12 mo concern, child(ren)s education	805
UM9918M*	U18M.	Uned 12 mo concern, serious health prob/fam	806
UM9918N*	U18N.	Uned 12 mo concern, divorce/marital problem	807
UM9918O*	U18O.	Uned 12 mo concern, birth/adoption of child	808
UM9918P*	U18P.	Uned 12 mo concern, your/spouse pregnancy	809
UM9918Q*	U18Q.	Uned 12 mo concern, death of family member	810
UM9918R*	U18R.	Uned 12 mo concern, fin prob/bnkrpt in fam	811
UM9918S*	U18S.	Uned 12 mo concern, disaster repair to home	812
UM9918T*	U18T.	Uned 12 mo concern, other (specify)	813
UM9923A*	U23A.	Uned join AD, trouble in schl, needed break	814
UM9923B*	U23B.	Uned join AD, away from family, hometown	815
UM9923C*	U23C.	Uned join AD, decide what to do	816
UM9923D*	U23D.	Uned join AD, test self physically/mentally	817

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9923E*	U23E.	Uned join AD, challenging, interesting work	818
UM9923F*	U23F.	Uned join AD, always want to be in military	819
UM9923G*	U23G.	Uned join AD, military tradition in family	820
UM9923H*	U23H.	Uned join AD, parents encouragement	821
UM9923I*	U23I.	Uned join AD, desire to serve your country	822
UM9923J*	U23J.	Uned join AD, image given by mil personnel	823
UM9923K*	U23K.	Uned join AD, few/no civ job opportunity	824
UM9923L*	U23L.	Uned join AD, pay and allowance(s)	825
UM9923M*	U23M.	Uned join AD, retirement pay and benefits	826
UM9923N*	U23N.	Uned join AD, security and stability of job	827
UM9923O*	U23O.	Uned join AD, oppty to work in specific occ	828
UM9923P*	U23P.	Uned join AD, train in skills for civ occ	829
UM9923Q*	U23Q.	Uned join AD, family benefits	830
UM9923R*	U23R.	Uned join AD, travel and new experiences	831
UM9923S*	U23S.	Uned join AD, money for college/educ bnfts	832
UM9923T*	U23T.	Uned join AD, personal growth and maturity	833
UM9923U*	U23U.	Uned join AD, other	834
UM9927*	U27.	Uned receive mil occup of choice	835
UM9930*	U30.	Uned time remain in current term or oblig	838
UM9931*	U31.	Uned lkly allow to stay in svc-end of oblig	839
UM9948A*	U48A.	Uned past 6mo thought seriously of lv mil	841
UM9948B*	U48B.	Uned past 6mo wondered about civilian life	842
UM9948C*	U48C.	Uned past 6mo discussd leavng w family/frie	843
UM9948D*	U48D.	Uned past 6mo talkd of leavng w immd suprvi	844
UM9948E*	U48E.	Uned past 6mo gatherd info on educ prgrm/co	845
UM9948F*	U48F.	Uned past 6mo gatherd info on civ job optio	846
UM9948G*	U48G.	Uned past 6mo attended prgrm on civ employm	847
UM9948H*	U48H.	Uned past 6mo prepared a resume	848
UM9948I*	U48I.	Uned past 6mo applied for a job	849
UM9948J*	U48J.	Uned past 6mo interviewed for a job	850
UM9948K*	U48K.	Uned past 6mo none of the above	851
UM9955A*	U55A.	Uned sp curr serving on active duty	897
UM9955B*	U55B.	Uned sp curr Natl Gd/Res in active dty prog	898
UM9955C*	U55C.	Uned sp curr other Natl Guard or Res prog	899
UM9955D*	U55D.	Uned sp curr work in Fed civ job full time	900
UM9955E*	U55E.	Uned sp curr work in Fed civ job part time	901
UM9955F*	U55F.	Uned sp curr work civ job on base full time	902
UM9955G*	U55G.	Uned sp curr work civ job on base part time	903
UM9955H*	U55H.	Uned sp curr work civ job off base FT	904
UM9955I*	U55I.	Uned sp curr work civ job off base PT	905
UM9955J*	U55J.	Uned sp curr manage/work in family business	906
UM9955K*	U55K.	Uned sp curr self empl own bus/profession	907
UM9955L*	U55L.	Uned sp curr unemployed, looking for work	908
UM9955M*	U55M.	Uned sp curr in school	909
UM9955N*	U55N.	Uned sp curr homemaker/hswife/hshusband	910

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9955O*	U55O.	Uned sp curr retired	911
UM9955P*	U55P.	Uned sp curr other (specify)	912
UM9957*	U57.	Uned how many times have you been divorced	934
UM9959A*	U59A.	Uned num. child/legal dep - under 1 year	942
UM9959B*	U59B.	Uned num. child/legal dep - 1 to under 2 yr	943
UM9959C*	U59C.	Uned num. child/legal dep - 2-5 years	944
UM9959D*	U59D.	Uned num. child/legal dep - 6-13 years	945
UM9959E*	U59E.	Uned num. child/legal dep - 14-22 years	946
UM9959F*	U59F.	Uned num. child/legal dep - 23-64 years	947
UM9959G*	U59G.	Uned num. child/legal dep - 65 years or old	948
UM9960A*	U60A.	Uned child/dep home, under 1 year old	956
UM9960B*	U60B.	Uned child/dep home, 1 year to under 2 year	957
UM9960C*	U60C.	Uned child/dep home, 2-5 years old	958
UM9960D*	U60D.	Uned child/dep home, 6-13 years old	959
UM9960E*	U60E.	Uned child/dep home, 14-22 years old	960
UM9960F*	U60F.	Uned child/dep home, 23-64 years old	961
UM9960G*	U60G.	Uned child/dep home, 65 years old or older	962
UM9961A*	U61A.	Uned child/dep away, under 1 year old	970
UM9961B*	U61B.	Uned child/dep away, 1 year to under 2 year	971
UM9961C*	U61C.	Uned child/dep away, 2-5 years old	972
UM9961D*	U61D.	Uned child/dep away, 6-13 years old	973
UM9961E*	U61E.	Uned child/dep away, 14-22 years old	974
UM9961F*	U61F.	Uned child/dep away, 23-64 years old	975
UM9961G*	U61G.	Uned child/dep away, 65 years old or older	976
UM9962A*	U62A.	Uned not applicable, have not used any	977
UM9962B*	U62B.	Uned 12 mo care, other parent or stepparent	978
UM9962C*	U62C.	Uned 12 mo care, brother/sister 15 or older	979
UM9962D*	U62D.	Uned 12 mo care, brother/sister < 15	980
UM9962E*	U62E.	Uned 12 mo care, grandparent	981
UM9962F*	U62F.	Uned 12 mo care, other relative	982
UM9962G*	U62G.	Uned 12 mo care, friend or neighbor	983
UM9962H*	U62H.	Uned 12 mo care, sitter, nanny or au pair	984
UM9962I*	U62I.	Uned 12 mo care, preschool (on base)	985
UM9962J*	U62J.	Uned 12 mo care, preschool (off base)	986
UM9962K*	U62K.	Uned 12 mo care, child devel ctr (on base)	987
UM9962L*	U62L.	Uned 12 mo care, day care center (off base)	988
UM9962M*	U62M.	Uned 12 mo care, family care home (on base)	989
UM9962N*	U62N.	Uned 12 mo care, care prov home (off base)	990
UM9962O*	U62O.	Uned 12 mo care, schl age cr prog (on base)	991
UM9962P*	U62P.	Uned 12 mo care, after schl prog (off base)	992
UM9962Q*	U62Q.	Uned 12 mo care, fed spprt Head Start prog	993
UM9962R*	U62R.	Uned 12 mo care, none of the above	994
UM9963*	U63.	Uned num child reg used childcare arrangmnt	995
UM9964A*	U64A.	Uned total spent, does not apply	996
UM9964B*	U64B.	Uned monthly childcare expenses	998

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9965*	U65.	Uned past 12 mo, any change in childcare	999
UM9966A*	U66A.	Uned reas chng, school start, end, change	1000
UM9966B*	U66B.	Uned reas chng, mil assign start, end, chng	1001
UM9966C*	U66C.	Uned reas chng, sp schl start, end, chng	1002
UM9966D*	U66D.	Uned reas chng, cost	1003
UM9966E*	U66E.	Uned reas chng, avail/hours of provider	1004
UM9966F*	U66F.	Uned reas chng, reliability of provider	1005
UM9966G*	U66G.	Uned reas chng, quality of care provided	1006
UM9966H*	U66H.	Uned reas chng, provider loc/accessibility	1007
UM9966I*	U66I.	Uned reas chng, never had reg arrangement	1008
UM9966J*	U66J.	Uned reas chng, child outgrew arrangement	1009
UM9966K*	U66K.	Uned reas chng, no longer elig for assist	1010
UM9966L*	U66L.	Uned reas chng, arrangement no longer avail	1011
UM9966M*	U66M.	Uned reas chng, other (specify)	1012
UM9967*	U67.	Uned past 12 mo, lost work for childcr chng	1013
UM9968*	U68.	Uned have child enrolled in school	1014
UM9969*	U69.	Uned type of school youngest child attends	1016
UM9970*	U70.	Uned hrs/week	1018
UM9971A*	U71A.	Uned rate schl, overall academic program	1019
UM9971B*	U71B.	Uned rate schl, support svcs prov by school	1020
UM9971C*	U71C.	Uned rate schl, special education programs	1021
UM9971D*	U71D.	Uned rate schl, physcl plant (bldgs, etc.)	1022
UM9971E*	U71E.	Uned rate schl, avail extracurric activity	1023
UM9971F*	U71F.	Uned rate schl, safety of school	1024
UM9971G*	U71G.	Uned rate schl, overall quality of school	1025
UM9972A*	U72A.	Uned schl act, conference/mtg with teachers	1026
UM9972B*	U72B.	Uned schl act, wk w/teacher promote achieve	1027
UM9972C*	U72C.	Uned schl act, collaborate educ opp for all	1028
UM9972D*	U72D.	Uned schl act, plan/impl curric/extra activ	1029
UM9972E*	U72E.	Uned schl act, prob solv to prmte learning	1030
UM9972F*	U72F.	Uned schl act, none of the above	1031
UM9975*	U75.	Uned num of elderly fam members cared for	1033
UM9976*	U76.	Uned past 12 mo, lose work to eldercr resp	1034
UM9977A*	U77A.	Uned sat hlth, out of pocket cost for care	1035
UM9977B*	U77B.	Uned sat hlth, skill phys/other providers	1036
UM9977C*	U77C.	Uned sat hlth, availability of specialists	1037
UM9977D*	U77D.	Uned sat hlth, ability to get appointments	1038
UM9977E*	U77E.	Uned sat hlth, waiting time in the clinic	1039
UM9977F*	U77F.	Uned sat hlth, overall quality of care	1040
UM9977G*	U77G.	Uned sat hlth, admin req (paperwork, etc.)	1041
UM9979A*	U79A.	Uned no vol, not asked to volunteer	1042
UM9979B*	U79B.	Uned no vol, did not have time to volunteer	1043
UM9979C*	U79C.	Uned no vol, no childcare, could not volunt	1044
UM9979D*	U79D.	Uned no vol, not interested in vlntr work	1045
UM9979E*	U79E.	Uned no vol, did not have transportation	1046

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9979F*	U79F.	Uned no vol, none of the above	1047
UM9982A*	U82A.	Uned no fam, n/a, I have no family members	1059
UM9982B*	U82B.	Uned no fam, legal separation or divorce	1060
UM9982C*	U82C.	Uned no fam, temp unaccomp, fam join later	1061
UM9982D*	U82D.	Uned no fam, perm unaccomp, billet required	1062
UM9982E*	U82E.	Uned no fam, perm unaccomp, overseas tour	1063
UM9982F*	U82F.	Uned no fam, perm unaccomp, no hh move w/PC	1064
UM9982G*	U82G.	Uned no fam, spouse career	1065
UM9982H*	U82H.	Uned no fam, spouse education	1066
UM9982I*	U82I.	Uned no fam, child(ren)s education	1067
UM9982J*	U82J.	Uned no fam, health/illness of family mem	1068
UM9982K*	U82K.	Uned no fam, eldercare responsibilities	1069
UM9982L*	U82L.	Uned no fam, other (specify)	1070
UM9984A*	U84A.	Uned mil rel, parent or guardian	1072
UM9984B*	U84B.	Uned mil rel, spouse	1073
UM9984C*	U84C.	Uned mil rel, brother or sister	1074
UM9984D*	U84D.	Uned mil rel, son or daughter	1076
UM9984E*	U84E.	Uned mil rel, grandparent	1077
UM9984F*	U84F.	Uned mil rel, uncle or aunt	1078
UM9984G*	U84G.	Uned mil rel, cousin	1079
UM9984H*	U84H.	Uned mil rel, other close relative	1080
UM9984I*	U84I.	Uned mil rel, no rel served on active duty	1081
UM9986*	U86.	Uned hrs/wk civ job/own bus	1083
UM9987A*	U87A.	Uned 12 mo income, second job	1084
UM9987B*	U87B.	Uned 12 mo income, alimony	1085
UM9987C*	U87C.	Uned 12 mo income, child support	1086
UM9987D*	U87D.	Uned 12 mo income, Supplemental Social Sec	1087
UM9987E*	U87E.	Uned 12 mo income, unemployment/wrkrs comp	1088
UM9987F*	U87F.	Uned 12 mo income, state pd childcr assist	1089
UM9987G*	U87G.	Uned 12 mo income, WIC	1090
UM9987H*	U87H.	Uned 12 mo income, food stamp program	1091
UM9987I*	U87I.	Uned 12 mo income, Head Start program	1092
UM9987J*	U87J.	Uned 12 mo income, AFDC	1093
UM9987K*	U87K.	Uned 12 mo income, Medicaid	1094
UM9987L*	U87L.	Uned 12 mo income, other (specify)	1095
UM9996A*	U96A.	12 mo event, bounced 2 or more checks	1096
UM9996B*	U96B.	12 mo event, late pay ltr commnd officer	1097
UM9996C*	U96C.	12 mo event, had wages garnished	1098
UM9996D*	U96D.	12 mo event, behind on rent or mortgage	1099
UM9996E*	U96E.	12 mo event, behind cr cd, AAFES, NEXCOM	1100
UM9996F*	U96F.	12 mo event, pressured by stores, credit	1101
UM9996G*	U96G.	12 mo event, bill coll called unit leader	1102
UM9996H*	U96H.	12 mo event, pawned/sold valuables	1103
UM9996I*	U96I.	12 mo event, borrow from friend/relative	1104
UM9996J*	U96J.	12 mo event, Emer Loan, Service Aid Soc	1105

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9996K*	U96K.	12 mo event, utilities shut off	1106
UM9996L*	U96L.	12 mo event, car, appl, furn repossessed	1107
UM9996M*	U96M.	12 mo event, could not afford med care	1108
UM9996N*	U96N.	12 mo event, went bankrupt	1109
UM9996O*	U96O.	12 mo event, none of the above	1110
UPREDHI*	U56HI.	Uned sp educ highest degree/level school	932
UPREDUC*	U56.	Uned sp educ highest degree/level cmp	923
UPREDUCA*	56A.	Uned sp ed cmpl, 11th grade or less	924
UPREDUCB*	56B.	Uned sp ed cmpl, 12 yrs of school, no dplma	925
UPREDUCC*	56C.	Uned sp ed cmpl, high school diploma or GED	926
UPREDUCD*	56D.	Uned sp ed cmpl, less than 1 year college	927
UPREDUCE*	56E.	Uned sp ed cmpl, 1 or more yr coll, no dgr	928
UPREDUCF*	56F.	Uned sp ed cmpl, associate degree (AA, AS)	929
UPREDUCG*	56G.	Uned sp ed cmpl, bachelor degree (BA, BS)	930
UPREDUCH*	56H.	Uned sp ed cmpl, masters, doctorate, prof	931
XMIMPL		Constructed Duty Location	634
XMIMPLF*		Imputation Flag for Constructed Duty Loc	1148
XMIMPM		Constructed Marital Status	652
XMIMPMF*		Imputation Flag for Cnstrctd Marital Stat	1149
XMIMPP		Constructed Paygrade	696
XMIMPPC		Recoded Constructed Paygrade	697
XMIMPPF*		Imputation Flag for Constructed Paygrade	1154
XMIMPS		Constructed Service Component	695
XMIMPSF*		Imputation Flag for Constructed Service	1155
XMIMPX		Constructed Gender	690
XMIMPXF*		Imputation Flag for Constructed Gender	1150
XRETH1*		Constructed Race/Eth Based on 1997 Standard	1151-1152
YOS*		Member's years of active duty service	1222

Appendix F

Positional Variable List for the Survey Analysis Files

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
		INFORMATION GATHERED ON THE SURVEY	
M9901	1.	Past yr hrs/wk you worked	1
M9902	2.	Last workweek hours you worked	2
M9903A	3A.	Wk mr 12 mo reas, n/a	3
M9903B	3B.	Wk mr 12 mo reas, mission crit require	4
M9903C	3C.	Wk mr 12 mo reas, mission prep/trng/mnt	5
M9903D	3D.	Wk mr 12 mo reas, addl duties/spec proj	6
M9903E	3E.	Wk mr 12 mo reas, unit prep deployment	7
M9903F	3F.	Wk mr 12 mo reas, insuff billets	8
M9903G	3G.	Wk mr 12 mo reas, unit under-manned	9
M9903H	3H.	Wk mr 12 mo reas, part of unit deployed	10
M9903I	3I.	Wk mr 12 mo reas, demanding supervisor	11
M9903J	3J.	Wk mr 12 mo reas, prob w/subordinates	12
M9903K	3K.	Wk mr 12 mo reas, high workload	13
M9903L	3L.	Wk mr 12 mo reas, poor/lack planning	14
M9903M	3M.	Wk mr 12 mo reas, others not working	15
M9903N	3N.	Wk mr 12 mo reas, inspects/inspect prep	16
M9903O	3O.	Wk mr 12 mo reas, equip failure/repairs	17
M9903P	3P.	Wk mr 12 mo reas, none of the above	18
M9906	6.	Current dplmt keep you away over month	19
M9906SK	6SK.	Current dplmt keep you away over month-SK	20
M9908	8.	Where do you live at your perm dty stn	21
M9909A	9A.	Sat w/ curr dty resd/cmty: Cst of resdnc	22
M9909B	9B.	Sat w/ curr dty resd/cmty: Qlty/cond rsd	23
M9909C	9C.	Sat w/ curr dty resd/cmty: Amt space	24
M9909D	9D.	Sat w/ curr dty resd/cmty: Pvcy of rsdnc	25
M9909E	9E.	Sat w/ curr dty resd/cmty: Qlty area hsg	26
M9909F	9F.	Sat w/ curr dty resd/cmty: Sfty lv area	27
M9909G	9G.	Sat w/ curr dty resd/cmty: Dist to work	28
M9909H	9H.	Sat w/ curr dty resd/cmty: Dist to shppg	29
M9909I	9I.	Sat w/ curr dty resd/cmty: Dist rec ars	30
M9910A	10A.	Choose res - no choice	31
M9910B	10B.	Choose res - best value for money	32
M9910C	10C.	Choose res - safety and security	33
M9910D	10D.	Choose res - close to workplace	34
M9910E	10E.	Choose res - close to base, svcs, progs	35
M9910F	10F.	Choose res - spouses choice	36
M9910G	10G.	Choose res - better schools	37
M9910H	10H.	Choose res - fewer rules	38
M9910I	10I.	Choose res - privacy	39
M9910J	10J.	Choose res - want spec area/community	40
M9910K	10K.	Choose res - available right away	41
M9910L	10L.	Choose res - mil housing unavailable	42

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
		INFORMATION GATHERED ON THE SURVEY	
M9910M	10M.	Choose res - civilian housing unavail	43
M9910N	10N.	Choose res - better than mil on/off base	44
M9910O	10O.	Choose res - better than civ housing	45
M9910P	10P.	Choose res - wanted military neighbors	46
M9910Q	10Q.	Choose res - wanted civilian neighbors	47
M9910R	10R.	Choose res - other	48
M9911	11.	If same cost pref civil or military hsg	49
M9912	12.	During act dty nbr of stn chngs	50
M9912SK	12SK.	During act dty nbr of stn chngs-SK	51
M9913A	13A.	Rec PCS prob, change in PCS date	52
M9913B	13B.	Rec PCS prob, hr of PCS assist ofc	53
M9913C	13C.	Rec PCS prob, wait for perm house	54
M9913D	13D.	Rec PCS prob, sell/rent frmr rsdnc	55
M9913E	13E.	Rec PCS prob, buy/rent crrnt rsdnc	56
M9913F	13F.	Rec PCS prob, time to prepare move	57
M9913G	13G.	Rec PCS prob, ship/store hshld good	58
M9913H	13H.	Rec PCS prob, TAD/TDY en route	59
M9913I	13I.	Rec PCS prob, temp lodge expense	60
M9913J	13J.	Rec PCS prob, cost of scrty dpst	61
M9913K	13K.	Rec PCS prob, cost to move pets	62
M9913L	13L.	Rec PCS prob, cost to move vhcle	63
M9913M	13M.	Rec PCS prob, cost new pnt/carpet	64
M9913N	13N.	Rec PCS prob, settle damage claims	65
M9913O	13O.	Rec PCS prob, unpaid tran costs	66
M9913P	13P.	Rec PCS prob, timeliness reimburse	67
M9913Q	13Q.	Rec PCS prob, accuracy reimburse	68
M9913R	13R.	Rec PCS prob, time off at dest	69
M9913S	13S.	Rec PCS prob, change in cost of living	70
M9913T	13T.	Rec PCS prob, loss/decrease sp pay	71
M9913U	13U.	Rec PCS prob, spouse employment	72
M9913V	13V.	Rec PCS prob, trnsfr entitlmnt pay	73
M9913W	13W.	Rec PCS prob, get special edu svcs	74
M9913X	13X.	Rec PCS prob, sp/dep change schools	75
M9913Y	13Y.	Rec PCS prob, trnsfr college crdts	76
M9913Z	13Z.	Rec PCS prob, avail chld care	77
M9914	14.	Past yr away ovrnt mil duties	78
M9914SK	14SK.	Past yr away ovrnt mil duties-SK	79
M9915	15.	Past 12 mo, how many times away overnight	80
M9918A	18A.	12 mo concern, manage expenses and bills	81
M9918B	18B.	12 mo concern, hh repair, cars, maint	82
M9918C	18C.	12 mo concern, storage/secur pers items	83
M9918D	18D.	12 mo concern, pet care	84

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M9918E	18E.	12 mo concern, interrupt off duty educ	85
M9918F	18F.	12 mo concern, loss of part time job	86
M9918G	18G.	12 mo concern, able to commun w/family	87
M9918H	18H.	12 mo concern, safety of fam in commun	88
M9918I	18I.	12 mo concern, spouse job/educ demands	89
M9918J	18J.	12 mo concern, childcare arrangements	90
M9918K	18K.	12 mo concern, eldercare	91
M9918L	18L.	12 mo concern, child(ren)s education	92
M9918M	18M.	12 mo concern, serious health prob/fam	93
M9918N	18N.	12 mo concern, divorce/marital problems	94
M9918O	18O.	12 mo concern, birth/adoption of child	95
M9918P	18P.	12 mo concern, your/spouse pregnancy	96
M9918Q	18Q.	12 mo concern, death of family member	97
M9918R	18R.	12 mo concern, fin prob/bankrupt in fam	98
M9918S	18S.	12 mo concern, disaster repair to home	99
M9918T	18T.	12 mo concern, other (specify)	100
M9918SP	18SP.	Past year concern while away-SP	101
M9919	19.	Pst yr dtld outside scp prim duties	102
M9920A	20A.	Unit prep for msn crtl: Manning level	103
M9920B	20B.	Unit prep for msn crtl: Training	104
M9920C	20C.	Unit prep for msn crtl: Pts and equip	105
M9921	21.	Nxt yr expct awy prm dty stn for mil dty	106
M9922	22.	Career intention when entered actv dty	107
M9923A	23A.	Join AD, trouble in school, needed break	108
M9923B	23B.	Join AD, away from family, hometown	109
M9923C	23C.	Join AD, decide what to do	110
M9923D	23D.	Join AD, test self physically, mentally	111
M9923E	23E.	Join AD, challenging, interesting work	112
M9923F	23F.	Join AD, always wanted to be in military	113
M9923G	23G.	Join AD, military tradition in family	114
M9923H	23H.	Join AD, parents encouragement	115
M9923I	23I.	Join AD, desire to serve your country	116
M9923J	23J.	Join AD, image given by mil personnel	117
M9923K	23K.	Join AD, few/no civilian job opportunity	118
M9923L	23L.	Join AD, pay and allowance(s)	119
M9923M	23M.	Join AD, retirement pay and benefits	120
M9923N	23N.	Join AD, security and stability of job	121
M9923O	23O.	Join AD, oppty to work in specific occup	122
M9923P	23P.	Join AD, train in skills for civ occup	123
M9923Q	23Q.	Join AD, family benefits	124
M9923R	23R.	Join AD, travel and new experiences	125
M9923S	23S.	Join AD, money for college/educ benefits	126

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M9923T	23T.	Join AD, personal growth and maturity	127
M9923U	23U.	Join AD, other	128
M9924	24.	Which is most important reason joined	129-130
M9925	2.	...next most important reason joined	131-132
M9926	26.	First actv preference for mil occptn	133
M9926SK	26SK.	First actv preference for mil occptn-SK	134
M9927	27.	Receive mil occup of choice	135
M9928	28.	Sat now w/ mil occup recd entrd act dty	136
M9929SK	29SK.	Term of service serving now-SK	137
M9931	31.	Likely allow to stay in svc-end of oblig	138
M9932	32.	If decd to stay actv dty would if pssbl	139
M9933	33.	Sty actv dty whn expt nxt prmtn hgr grd	140
M9934	34.	Sps/grlfd/byfd thnk you shld lv act dty	141
M9935	35.	If cld sty actv, how lkly srv 20 yrs	142
M9937	37.	If lv next yr wht prmy activity	143
M9938	38.	Lv act dty lkly jn Natl Grd/Rsv Unit	144
M9939A	39A.	How sat w/ flwing: Basic pay	145
M9939B	39B.	How sat w/ flwing: Special/incntv pay	146
M9939C	39C.	How sat w/ flwing: Reenlst bonus/con py	147
M9939D	39D.	How sat w/ flwing: Housing allowance	148
M9939E	39E.	How sat w/ flwing: SEPRATS/COMRATS	149
M9939F	39F.	How sat w/ flwing: Military housing	150
M9939G	39G.	How sat w/ flwing: Med care for you	151
M9939H	39H.	How sat w/ flwing: Dental care	152
M9939I	39I.	How sat w/ flwing: Retirement pay	153
M9939J	39J.	How sat w/ flwing: COLA to retir pay	154
M9939K	39K.	How sat w/ flwing: Otr retirement benfts	155
M9939L	39L.	How sat w/ flwing: Pace of promotions	156
M9939M	39M.	How sat w/ flwing: Chance for future adv	157
M9939N	39N.	How sat w/ flwing: Training & prof dev	158
M9939O	39O.	How sat w/ flwing: Type of assignments	159
M9939P	39P.	How sat w/ flwing: Deployments	160
M9939Q	39Q.	How sat w/ flwing: Mil dut away frm stat	161
M9939R	39R.	How sat w/ flwing: Avl equipt/resourcs	162
M9939S	39S.	How sat w/ flwing: Lvl manning in unit	163
M9939T	39T.	How sat w/ flwing: Unit morale	164
M9939U	39U.	How sat w/ flwing: Personal workload	165
M9939V	39V.	How sat w/ flwing: Amt prsonal/fam tm	166
M9939W	39W.	How sat w/ flwing: Off duty educ oppty	167
M9939X	39X.	How sat w/ flwing: Qlty of leadership	168
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M9939CC	39CC.	How sat w/ flwing: Loc/station of chc	173
M9939DD	39DD.	How sat w/ flwing: Co-loc w/milit sps	174
M9939EE	39EE.	How sat w/ flwing: Med care of family	175
M9939FF	39FF.	How sat w/ flwing: Dntl care of fam	176
M9939GG	39GG.	How sat w/ flwing: Yth actvts on base	177
M9939HH	39HH.	How sat w/ flwing: Schools for chldrn	178
M9939II	39II.	How sat w/ flwing: Spouse employ/oppt	179
M9939JJ	39JJ.	How sat w/ flwing: Mil fam spprt pgms	180
M9939KK	39KK.	How sat w/ flwing: Accept childcare	181
M9940	40.	Most imp factor for staying active	182-184
M9941	41.	Next most impt factor for staying	185-187
M9942	42.	Most imp factor for leaving active duty	188-190
M9943	43.	Next most impt factor for lvng act dt	191-193
M9944A	44A.	Hw impt for compensat: Job diff	194
M9944B	44B.	Hw impt for compensat: Job perfm	195
M9944C	44C.	Hw impt for compensat: Danger	196
M9944D	44D.	Hw impt for compensat: Time awy hme	197
M9944E	44E.	Hw impt for compensat: Nbr hrs wkd	198
M9944F	44F.	Hw impt for compensat: Lvl of resp	199
M9944G	44G.	Hw impt for compensat: Amt of ed/trng	200
M9944H	44H.	Hw impt for compensat: Yrs of expernc	201
M9944I	44I.	Hw impt for compensat: Amt civil pay	202
M9944J	44J.	Hw impt for compensat: Amt nd for fam	203
M9944K	44K.	Hw impt for compensat: Cost living	204
M9945A	45A.	AgrDis past yr mission imp natl interest	205
M9945B	45B.	AgrDis past yr duty helped mil readiness	206
M9945C	45C.	AgrDis peacekeeping/peacemaking rewardng	207
M9945D	45D.	AgrDis overseas humanitarian rewarding	208
M9945E	45E.	AgrDis little my expernce trnsfrs to civ	209
M9945F	45F.	AgrDis easy for me to get civ job now	210
M9945G	45G.	AgrDis good idea of civ jobs I could get	211
M9945H	45H.	AgrDis good idea of civ pay I could get	212
M9945I	45I.	AgrDis mil benefits have eroded recently	213
M9945J	45J.	AgrDis would encourage others join mil	214
M9946	46.	Has life been better/worse than expected	215
M9947	47.	Has work been better/worse than expected	216
M9948A	48A.	Past 6mo thought seriously of leavng mil	217
M9948B	48B.	Past 6mo wondered about civilian life	218
M9948C	48C.	Past 6mo discussed leavng w family/friend	219
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M9948E	48E.	Past 6mo gatherd info on educ prgrm/coll	221
M9948F	48F.	Past 6mo gatherd info on civ job options	222
M9948G	48G.	Past 6mo attended prgrm on civ employmnt	223
M9948H	48H.	Past 6mo prepared a resume	224
M9948I	48I.	Past 6mo applied for a job	225
M9948J	48J.	Past 6mo interviewed for a job	226
M9948K	48K.	Past 6mo none of the above	227
M9949A	49A.	Cmpre mil/civ ops: Promotion opp	228
M9949B	49B.	Cmpre mil/civ ops: Amt persnal/fam tm	229
M9949C	49C.	Cmpre mil/civ ops: Hrs wkd pr week	230
M9949D	49D.	Cmpre mil/civ ops: Vacation time	231
M9949E	49E.	Cmpre mil/civ ops: Education/training	232
M9949F	49F.	Cmpre mil/civ ops: Total compensation	233
M9949G	49G.	Cmpre mil/civ ops: Health care benefits	234
M9949H	49H.	Cmpre mil/civ ops: Retirement benefits	235
M9949I	49I.	Cmpre mil/civ ops: Sense acmplshmt/prd	236
M9949J	49J.	Cmpre mil/civ ops: Genl qlty of life	237
M9950A	50A.	Agr/Dis most my friends in mil community	238
M9950B	50B.	Agr/Dis mil community is there for me	239
M9950C	50C.	Agr/Dis have lot in common w civ communty	240
M9950D	50D.	Agr/Dis mil community asks me for help	241
M9950E	50E.	Agr/Dis live onbase helps make ends meet	242
M9950F	50F.	Agr/Dis talk up my Service as great org	243
M9950G	50G.	Agr/Dis not much good stick w mil career	244
M9950H	50H.	Agr/Dis proud to be member of my Service	245
M9950I	50I.	Agr/Dis my values & my Service's similar	246
M9950J	50J.	Agr/Dis my Service inspires me to best	247
M9950K	50K.	Agr/Dis turn down job w more pay to stay	248
M9950L	50L.	Agr/Dis my Service promotes best members	249
M9950M	50M.	Agr/Dis will be promotd accordng to abilty	250
M9951	51.	How satisfied w/military way of life	251
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MA952A02		Availability of library services	253
MA952A03		Availability of outdoor recreation areas	254
MA952A04		Availability of outdoor recreation equip	255
MA952A05		Availability of recreation center	256
MA952A06		Availability of golf course	257
MA952A07		Availability of bowling center	258
MA952A08		Availability of rec lodging/hotel/resorts	259
MA952A09		Availability of clubs/dance/night clubs	260
MA952A10		Availability of comm/supermkt/grocery	261
MA952A11		Availability of main exch/dprtmnt store	262

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
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MA952A12		Availability of social activities	263
MA952A13		Availability of auto/crafts/hobby shops	264
MA952B01		Availability of fitness center/gym	265
MA952B02		Availability of library services	266
MA952B03		Availability of outdoor recreation areas	267
MA952B04		Availability of outdoor recreation equip	268
MA952B05		Availability of recreation center	269
MA952B06		Availability of golf course	270
MA952B07		Availability of bowling center	271
MA952B08		Availability of rec lodging/hotel/resorts	272
MA952B09		Availability of clubs/dance/night clubs	273
MA952B10		Availability of comm/supermkt/grocery	274
MA952B11		Availability of main exch/dprtmnt store	275
MA952B12		Availability of social activities	276
MA952B13		Availability of auto/crafts/hobby shops	277
MU952A01		Average use of fitness center/gym	278
MU952A02		Average use of library services	279
MU952A03		Average use of outdoor recreation areas	280
MU952A04		Average use of outdoor recreation equip	281
MU952A05		Average use of recreation center	282
MU952A06		Average use of golf courses	283
MU952A07		Average use of bowling center	284
MU952A08		Average use of rec lodging/hotel/resorts	285
MU952A09		Average use of clubs/dance/night clubs	286
MU952A10		Average use of comm/supermarket/grocery	287
MU952A11		Average use of exchange/department store	288
MU952A12		Average use of social activities	289
MU952A13		Average use of auto/crafts/hobby shops	290
MU952B01		Average use of civ offbase fitness center	291
MU952B02		Average use of library services	292
MU952B03		Average use of outdoor recreation areas	293
MU952B04		Average use of outdoor recreation equip	294
MU952B05		Average use of recreation center	295
MU952B06		Average use of golf courses	296
MU952B07		Average use of bowling center	297
MU952B08		Average use of lodging/hotel/resorts	298
MU952B09		Average use of club/dance/night clubs	299
MU952B10		Average use of comm/supermarket/grocery	300
MU952B11		Average use of exchange/department store	301
MU952B12		Average use of social activities	302
MU952B13		Average use of auto/crafts/hobby shops	303
M9953A	53A.	Past yr used pgm/svcs: Adlt edu/cnslng	304

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M9953B	53B.	Past yr used pgm/svcs: Tuition asst	305
M9954SKA	54SKA.	Marital status-SK	306
M9954SKB	54SKB.	Marital status-SK	307
M9955SP	55SP.	Is spouse currently-SP	308
M9958	58.	Do you have a child/children/legl depend	309
M9958SK	58SK.	Do you have a child/dependent-SK	310
M9962A	62A.	Not applicable, have not used any	311
M9962ASK	62ASK.	Chldcre arngmnt: N/A, not used-SK	312
M9962B	62B.	12 mo care, other parent or stepparent	313
M9962C	62C.	12 mo care, brother/sister 15 or older	314
M9962D	62D.	12 mo care, brother/sister under age 15	315
M9962E	62E.	12 mo care, grandparent	316
M9962F	62F.	12 mo care, other relative	317
M9962G	62G.	12 mo care, friend or neighbor	318
M9962H	62H.	12 mo care, sitter, nanny or au pair	319
M9962I	62I.	12 mo care, preschool (on base)	320
M9962J	62J.	12 mo care, preschool (off base)	321
M9962K	62K.	12 mo care, child devel ctr (on base)	322
M9962L	62L.	12 mo care, day care center (off base)	323
M9962M	62M.	12 mo care, family care home (on base)	324
M9962N	62N.	12 mo care, care prov home (off base)	325
M9962O	62O.	12 mo care, schl age care prog (on base)	326
M9962P	62P.	12 mo care, after schl prog (off base)	327
M9962Q	62Q.	12 mo care, fed support Head Start prog	328
M9962R	62R.	12 mo care, none of the above	329
M9963	63.	Num child reg used childcare arrangmnts	330
M9964A	64A.	Total spent, does not apply	331
M9964ASK	64ASK.	Total amt spnt on chldcr: N/A, none-SK	332
M9965	65.	Past 12 mo, any change in childcare	333
M9965SK	65SK.	Past year, changes in chldcre arrngmnts-SK	334
M9966A	66A.	Reas chng, school start, end, change	335
M9966B	66B.	Reas chng, mil assnmt start, end, change	336
M9966C	66C.	Reas chng, spouse schl start, end, chng	337
M9966D	66D.	Reas chng, cost	338
M9966E	66E.	Reas chng, avail/hours of provider	339
M9966F	66F.	Reas chng, reliability of provider	340
M9966G	66G.	Reas chng, quality of care provided	341
M9966H	66H.	Reas chng, provider loc/accessibility	342
M9966I	66I.	Reas chng, never had regular arrangement	343
M9966J	66J.	Reas chng, child outgrew arrangement	344
M9966K	66K.	Reas chng, no longer elig for assistance	345
M9966L	66L.	Reas chng, arrangement no longer avail	346

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
		INFORMATION GATHERED ON THE SURVEY	
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M9966SP	66SP.	Why childcare changed-SP	348
M9967	67.	Past 12 mo, lost work for childcare chng	349
M9968	68.	Have child enrolled in school	350
M9968SK	68SK.	Do you have a chld enrolled in schl-SK	351
M9969SK	69SK.	Type schl yngst schl-age chld attds-SK	352
M9969SP	69SP.	Type schl yngst schl-age chld attds-SP	353
M9971A	71A.	Rate school, overall academic program	354
M9971B	71B.	Rate school, support svcs prov by school	355
M9971C	71C.	Rate school, special education programs	356
M9971D	71D.	Rate school, physical plant (bldgs, etc.)	357
M9971E	71E.	Rate school, avail extracurric activities	358
M9971F	71F.	Rate school, safety of school	359
M9971G	71G.	Rate school, overall quality of school	360
M9972A	72A.	Schl act, conference/mtg with teachers	361
M9972B	72B.	Schl act, wk w/teacher promote achievemt	362
M9972C	72C.	Schl act, collaborate educ opp for all	363
M9972D	72D.	Schl act, plan/impl curric/extra activ	364
M9972E	72E.	Schl act, prob solv to promote learning	365
M9972F	72F.	Schl act, none of the above	366
M9974	74.	Have care resp for elderly fam member	367
M9974SK	74SK.	Have care rsp eldrly fam mbr-SK	368
M9975	75.	Num of elderly fam members cared for	369
M9976	76.	Past 12 mo, lose work to eldercare resp	370
M9977A	77A.	Sat hlth, out of pocket cost for care	371
M9977B	77B.	Sat hlth, skill phys/other providers	372
M9977C	77C.	Sat hlth, availability of specialists	373
M9977D	77D.	Sat hlth, ability to get appointments	374
M9977E	77E.	Sat hlth, waiting time in the clinic	375
M9977F	77F.	Sat hlth, overall quality of care	376
M9977G	77G.	Sat hlth, admin req (paperwork, etc.)	377
M9977H	77H.	Sat w/mil healthcare: Does not apply	378
M9977HSK	77HSK.	Sat w/mil healthcare-SK	379
M9978	78.	In last month, non-mil volunteer work	380
M9978SK	78SK.	In last month, non-mil vlntr wk-SK	381
M9979A	79A.	No vol, not asked to volunteer	382
M9979B	79B.	No vol, did not have time to volunteer	383
M9979C	79C.	No vol, no childcare, could not volunteer	384
M9979D	79D.	No vol, not interested in volunteer work	385
M9979E	79E.	No vol, did not have transportation	386
M9979F	79F.	No vol, none of the above	387
M9980	80.	How is your genl outlook abt yr life	388

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
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M9981SK	81SK.	Accmpnd by fam membr at prm dty stat-SK	390
M9982A	82A.	No fam, n/a, I have no family members	391
M9982SP	82SP.	Why no fam at perm-SP	392
M9984A	84A.	Mil rel, parent or guardian	393
M9984B	84B.	Mil rel, spouse	394
M9984C	84C.	Mil rel, brother or sister	395
M9984E	84E.	Mil rel, grandparent	396
M9984F	84F.	Mil rel, uncle or aunt	397
M9984G	84G.	Mil rel, cousin	398
M9984H	84H.	Mil rel, other close relative	399
M9984I	84I.	Mil rel, no rel served on active duty	400
M9985	85.	During off-duty, do you hld a scnd job	401
M9985SK	85SK.	During off-duty, do you hld a scnd job-SK	402
M9987A	87A.	12 mo income, second job	403
M9987B	87B.	12 mo income, alimony	404
M9987C	87C.	12 mo income, child support	405
M9987D	87D.	12 mo income, SSI	406
M9987E	87E.	12 mo income, unemployment/workers comp	407
M9987F	87F.	12 mo income, state paid childcare assist	408
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M9987I	87I.	12 mo income, Head Start program	411
M9987J	87J.	12 mo income, AFDC	412
M9987K	87K.	12 mo income, Medicaid	413
M9987L	87L.	12 mo income, other (specify)	414
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M9988	88.	Total monthly gross household income	416
M9989	89.	Ttl amt of savings you (and spouse) have	417
M9990	90.	Do you (or spouse) pay child support	418
M9991	91.	Ttl amt pd last month for rent/mortgage	419
M9992	92.	Ttl amt pd for loans/leases on cars/trck	420
M9993	93.	Ttl amt pd lst mnt for prsnl unsec debt	421
M9994	94.	Ttl amt still owed in unsecured debt	422
M9995	95.	Wht describes your financial condition	423
M9996A	96A.	12 mo event, bounced 2 or more checks	424
M9996B	96B.	12 mo event, late pay ltr commnd officer	425
M9996C	96C.	12 mo event, had wages garnished	426
M9996D	96D.	12 mo event, behind on rent or mortgage	427
M9996E	96E.	12 mo event, behind cr cd, AAFES, NEXCOM	428
M9996F	96F.	12 mo event, pressured by stores, credit	429
M9996G	96G.	12 mo event, bill coll called unit leadr	430

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M9996K	96K.	12 mo event, utilities shut off	434
M9996L	96L.	12 mo event, car, appl, furn repossessed	435
M9996M	96M.	12 mo event, could not afford med care	436
M9996N	96N.	12 mo event, went bankrupt	437
M9996O	96O.	12 mo event, none of the above	438
M9997A	97A.	Likely to participate: No gov match	439
M9997B	97B.	Likely to participate: Gov match 5%	440
M9997C	97C.	Likely to participate: Invst tax defrrd	441
M9998	98.	Main concern of mil retirement system	442
M9999	99.	Change rtrmnt bnfts to 10yrs, wld stay	443
M99100	100.	Rtrmnt pay formula chngd, wld stay	444
SRESL	102.	Is English a second language for you?	445
M99107SK	107SK.	Crnt serv act dty or Grd/Rsrv-SK	446
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COMMENT	112.	Comments or concerns not answered	448

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
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VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
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AD1F0		FS Unk Elig NonResponse Adj Factor	451
AD1W0		FS Unk Elig NonResponse Adj Weight	452
AD2F0		FS Elig NonRespondent Adj Factor	453
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BSWGT0		Form A Base Weight	455
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POPTVSTR		Taylor Series Variance Strata Population	457
PSTSTR		Final Postratification Cell	458
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PSW1		Final Postratif Weight for Replicate 1	460
PSW10		Final Postratif Weight for Replicate 10	461
PSW100		Final Postratif Weight for Replicate 100	462
PSW101		Final Postratif Weight for Replicate 101	463
PSW102		Final Postratif Weight for Replicate 102	464
PSW103		Final Postratif Weight for Replicate 103	465
PSW104		Final Postratif Weight for Replicate 104	466
PSW105		Final Postratif Weight for Replicate 105	467
PSW106		Final Postratif Weight for Replicate 106	468
PSW107		Final Postratif Weight for Replicate 107	469
PSW108		Final Postratif Weight for Replicate 108	470
PSW109		Final Postratif Weight for Replicate 109	471
PSW11		Final Postratif Weight for Replicate 11	472
PSW110		Final Postratif Weight for Replicate 110	473
PSW111		Final Postratif Weight for Replicate 111	474
PSW112		Final Postratif Weight for Replicate 112	475
PSW113		Final Postratif Weight for Replicate 113	476
PSW114		Final Postratif Weight for Replicate 114	477
PSW115		Final Postratif Weight for Replicate 115	478
PSW116		Final Postratif Weight for Replicate 116	479
PSW117		Final Postratif Weight for Replicate 117	480
PSW118		Final Postratif Weight for Replicate 118	481
PSW119		Final Postratif Weight for Replicate 119	482
PSW12		Final Postratif Weight for Replicate 12	483
PSW120		Final Postratif Weight for Replicate 120	484
PSW121		Final Postratif Weight for Replicate 121	485
PSW122		Final Postratif Weight for Replicate 122	486
PSW123		Final Postratif Weight for Replicate 123	487
PSW124		Final Postratif Weight for Replicate 124	488
PSW125		Final Postratif Weight for Replicate 125	489
PSW126		Final Postratif Weight for Replicate 126	490
PSW127		Final Postratif Weight for Replicate 127	491
PSW128		Final Postratif Weight for Replicate 128	492

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		INFORMATION ON WEIGHTING	
PSW129		Final Postratif Weight for Replicate 129	493
PSW13		Final Postratif Weight for Replicate 13	494
PSW130		Final Postratif Weight for Replicate 130	495
PSW131		Final Postratif Weight for Replicate 131	496
PSW132		Final Postratif Weight for Replicate 132	497
PSW133		Final Postratif Weight for Replicate 133	498
PSW134		Final Postratif Weight for Replicate 134	499
PSW135		Final Postratif Weight for Replicate 135	500
PSW136		Final Postratif Weight for Replicate 136	501
PSW137		Final Postratif Weight for Replicate 137	502
PSW138		Final Postratif Weight for Replicate 138	503
PSW139		Final Postratif Weight for Replicate 139	504
PSW14		Final Postratif Weight for Replicate 14	505
PSW140		Final Postratif Weight for Replicate 140	506
PSW141		Final Postratif Weight for Replicate 141	507
PSW142		Final Postratif Weight for Replicate 142	508
PSW143		Final Postratif Weight for Replicate 143	509
PSW144		Final Postratif Weight for Replicate 144	510
PSW145		Final Postratif Weight for Replicate 145	511
PSW146		Final Postratif Weight for Replicate 146	512
PSW147		Final Postratif Weight for Replicate 147	513
PSW148		Final Postratif Weight for Replicate 148	514
PSW149		Final Postratif Weight for Replicate 149	515
PSW15		Final Postratif Weight for Replicate 15	516
PSW150		Final Postratif Weight for Replicate 150	517
PSW151		Final Postratif Weight for Replicate 151	518
PSW152		Final Postratif Weight for Replicate 152	519
PSW153		Final Postratif Weight for Replicate 153	520
PSW154		Final Postratif Weight for Replicate 154	521
PSW155		Final Postratif Weight for Replicate 155	522
PSW156		Final Postratif Weight for Replicate 156	523
PSW157		Final Postratif Weight for Replicate 157	524
PSW158		Final Postratif Weight for Replicate 158	525
PSW159		Final Postratif Weight for Replicate 159	526
PSW16		Final Postratif Weight for Replicate 16	527
PSW160		Final Postratif Weight for Replicate 160	528
PSW161		Final Postratif Weight for Replicate 161	529
PSW162		Final Postratif Weight for Replicate 162	530
PSW163		Final Postratif Weight for Replicate 163	531
PSW164		Final Postratif Weight for Replicate 164	532
PSW165		Final Postratif Weight for Replicate 165	533
PSW166		Final Postratif Weight for Replicate 166	534
PSW167		Final Postratif Weight for Replicate 167	535

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		INFORMATION ON WEIGHTING	
PSW168		Final Postratif Weight for Replicate 168	536
PSW169		Final Postratif Weight for Replicate 169	537
PSW17		Final Postratif Weight for Replicate 17	538
PSW170		Final Postratif Weight for Replicate 170	539
PSW18		Final Postratif Weight for Replicate 18	540
PSW19		Final Postratif Weight for Replicate 19	541
PSW2		Final Postratif Weight for Replicate 2	542
PSW20		Final Postratif Weight for Replicate 20	543
PSW21		Final Postratif Weight for Replicate 21	544
PSW22		Final Postratif Weight for Replicate 22	545
PSW23		Final Postratif Weight for Replicate 23	546
PSW24		Final Postratif Weight for Replicate 24	547
PSW25		Final Postratif Weight for Replicate 25	548
PSW26		Final Postratif Weight for Replicate 26	549
PSW27		Final Postratif Weight for Replicate 27	550
PSW28		Final Postratif Weight for Replicate 28	551
PSW29		Final Postratif Weight for Replicate 29	552
PSW3		Final Postratif Weight for Replicate 3	553
PSW30		Final Postratif Weight for Replicate 30	554
PSW31		Final Postratif Weight for Replicate 31	555
PSW32		Final Postratif Weight for Replicate 32	556
PSW33		Final Postratif Weight for Replicate 33	557
PSW34		Final Postratif Weight for Replicate 34	558
PSW35		Final Postratif Weight for Replicate 35	559
PSW36		Final Postratif Weight for Replicate 36	560
PSW37		Final Postratif Weight for Replicate 37	561
PSW38		Final Postratif Weight for Replicate 38	562
PSW39		Final Postratif Weight for Replicate 39	563
PSW4		Final Postratif Weight for Replicate 4	564
PSW40		Final Postratif Weight for Replicate 40	565
PSW41		Final Postratif Weight for Replicate 41	566
PSW42		Final Postratif Weight for Replicate 42	567
PSW43		Final Postratif Weight for Replicate 43	568
PSW44		Final Postratif Weight for Replicate 44	569
PSW45		Final Postratif Weight for Replicate 45	570
PSW46		Final Postratif Weight for Replicate 46	571
PSW47		Final Postratif Weight for Replicate 47	572
PSW48		Final Postratif Weight for Replicate 48	573
PSW49		Final Postratif Weight for Replicate 49	574
PSW5		Final Postratif Weight for Replicate 5	575
PSW50		Final Postratif Weight for Replicate 50	576
PSW51		Final Postratif Weight for Replicate 51	577
PSW52		Final Postratif Weight for Replicate 52	578

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
		INFORMATION ON WEIGHTING	
PSW53		Final Postratif Weight for Replicate 53	579
PSW54		Final Postratif Weight for Replicate 54	580
PSW55		Final Postratif Weight for Replicate 55	581
PSW56		Final Postratif Weight for Replicate 56	582
PSW57		Final Postratif Weight for Replicate 57	583
PSW58		Final Postratif Weight for Replicate 58	584
PSW59		Final Postratif Weight for Replicate 59	585
PSW6		Final Postratif Weight for Replicate 6	586
PSW60		Final Postratif Weight for Replicate 60	587
PSW61		Final Postratif Weight for Replicate 61	588
PSW62		Final Postratif Weight for Replicate 62	589
PSW63		Final Postratif Weight for Replicate 63	590
PSW64		Final Postratif Weight for Replicate 64	591
PSW65		Final Postratif Weight for Replicate 65	592
PSW66		Final Postratif Weight for Replicate 66	593
PSW67		Final Postratif Weight for Replicate 67	594
PSW68		Final Postratif Weight for Replicate 68	595
PSW69		Final Postratif Weight for Replicate 69	596
PSW7		Final Postratif Weight for Replicate 7	597
PSW70		Final Postratif Weight for Replicate 70	598
PSW71		Final Postratif Weight for Replicate 71	599
PSW72		Final Postratif Weight for Replicate 72	600
PSW73		Final Postratif Weight for Replicate 73	601
PSW74		Final Postratif Weight for Replicate 74	602
PSW75		Final Postratif Weight for Replicate 75	603
PSW76		Final Postratif Weight for Replicate 76	604
PSW77		Final Postratif Weight for Replicate 77	605
PSW78		Final Postratif Weight for Replicate 78	606
PSW79		Final Postratif Weight for Replicate 79	607
PSW8		Final Postratif Weight for Replicate 8	608
PSW80		Final Postratif Weight for Replicate 80	609
PSW81		Final Postratif Weight for Replicate 81	610
PSW82		Final Postratif Weight for Replicate 82	611
PSW83		Final Postratif Weight for Replicate 83	612
PSW84		Final Postratif Weight for Replicate 84	613
PSW85		Final Postratif Weight for Replicate 85	614
PSW86		Final Postratif Weight for Replicate 86	615
PSW87		Final Postratif Weight for Replicate 87	616
PSW88		Final Postratif Weight for Replicate 88	617
PSW89		Final Postratif Weight for Replicate 89	618
PSW9		Final Postratif Weight for Replicate 9	619
PSW90		Final Postratif Weight for Replicate 90	620
PSW91		Final Postratif Weight for Replicate 91	621

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PSW93		Final Postratif Weight for Replicate 93	623
PSW94		Final Postratif Weight for Replicate 94	624
PSW95		Final Postratif Weight for Replicate 95	625
PSW96		Final Postratif Weight for Replicate 96	626
PSW97		Final Postratif Weight for Replicate 97	627
PSW98		Final Postratif Weight for Replicate 98	628
PSW99		Final Postratif Weight for Replicate 99	629
SMPTVSTR		Taylor's series achieved smp size in var	630
TVSTR		Taylor's series variance strata	631
TVUNIT		Taylor Series Variance Unit	632

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
		VARIABLES CONSTRUCTED FOR ANALYSIS	
RM9904	4.	Recode: currently assigned ship or shore	633
XMIMPL		Constructed Duty Location	634
RM9907	7.	Recode: where currently deployed	635
RM9916A	16A.	Recode: 12 mo away, peacekp/conting	636
RM9916B	16B.	Recode: 12 mo away, foreign hum assist	637
RM9916C	16C.	Recode: 12 mo away, unit/combat trngg	638
RM9916D	16D.	Recode: 12 mo away, counter drug op	639
RM9916E	16E.	Recode: 12 mo away, domestic disaster	640
RM9916F	16F.	Recode: 12 mo away, sched sea deploy	641
RM9916G	16G.	Recode: 12 mo away, other sea time	642
RM9916H	16H.	Recode: 12 mo away, joint trng/field	643
RM9916I	16I.	Recode: 12 mo away, military educ	644
RM9916J	16J.	Recode: 12 mo away, other TADs/TDYs	645
RM9917	17.	Recode: total time away for mil duty	646
RM9929	29.	Recode: term of service serving now	647
RM9930	30.	Recode: time remain in curr term/oblig	648
RM9936	36.	Recode: total expected years of service	649
RM9953C	53C.	Recode: use svcs, tech/voc programs	650
RM9953D	53D.	Recode: use svcs, basic skills educ	651
XMIMPM		Constructed Marital Status	652
RM955ABC	55ABC.	Recode: Sp curr actv duty/Natl G/Res/other	653
RM955DFH	55DFH.	Recode: Sp curr Fed Civ job/Civ job onbase	654
RM955EGI	55EGI.	Recode: Sp curr Fed Civ/Civ job/offbase PT	655
RM955JK	55JK.	Recode: Sp curr Fam business or self-employ	656
RM955L	55L.	Recode: Sp curr unemployed, look for work	657
RM955M	55M.	Recode: Sp curr in school	658
RM955N	55N.	Recode: Sp curr homemaker/hswife/hshusband	659
RM955O	55O.	Recode: Sp curr retired	660
RM955P	55P.	Recode: Sp curr other (specify)	661
RPREDHI	56HI.	Recode: Sp highest education	662
RM9957	57.	Recode: how many times divorced	663
RM9959A	59A.	Recode: number children under 1 year	664
RM9959B	59B.	Recode: number children 1-2 years	665
RM9959C	59C.	Recode: number children 2-5 years	666
RM9959D	59D.	Recode: number children 6-13 years	667
RM9959E	59E.	Recode: number children 14-22 years	668
RM9959FG	59FG.	Recode: number children 23 years +	669
RM9960A	60A.	Recode: children/home, under 1 year	670
RM9960B	60B.	Recode: children/home, 1-2 years	671
RM9960C	60C.	Recode: children/home, 2-5 years	672
RM9960D	60D.	Recode: children/home, 6-13 years	673
RM9960E	60E.	Recode: children/home, 14-22 years	674
RM9960FG	60FG.	Recode: children/home, 23 years +	675

VARIABLES CONSTRUCTED FOR ANALYSIS

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
RM9961AC	61AC.	Recode: children/away, up to 5 years	676
RM9961D	61D.	Recode: children/away, 6-13 years	677
RM9961E	61E.	Recode: children/away, 14-22 years	678
RM9961FG	61FG.	Recode: children/away, 23 years +	679
RM9964B	64B.	Recode: monthly childcare expense	680
RM9969	69.	Recode: type of school youngest child	681
RM9970	70.	Recode: hrs/week	682
RM9973	73.	Recode: chld/sp/legal dep in EFMP/CG Sp Nds	683
RM9982B	82B.	Recode: no fam, legal separation or divorce	684
RM9982CF	82CF.	Recode: temp/perm unaccompanied	685
RM9982GL	82GL.	Recode: unaccompanied due to sp/ch	686
RM9983	83.	Recode: number of times family moved	687
RM9984D	84D.	Recode: mil rel, son or daughter	688
RM9986	86.	Recode: hrs/wk civ job/own bus	689
XMIMPX		Constructed Gender	690
R2XRETH1		Constructed Race Ethnicity: 5 level-Recoded	691
RM9105HI	105HI.	Recode: highest educ at time of AD	692
RSREDHI	106H.	Recode: member highest education	693
RM99107	107.	Recode: curr on act duty/guard/reserve	694
XMIMPS		Constructed Service Component	695
XMIMPP		Constructed Paygrade	696
XMIMPPC		Recoded Constructed Paygrade	697
RM99110	110.	Recode: number yrs AD service	698

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
		INFORMATION FROM SAMPLING AND RECORDS DATA	
CREGINS		Constructed location group/region	699
FCODE		Sample member's form code	700
FILEFLG		File flag Active/Reservist	701
JOINT		Constructed marital stts/jnt svc marriage	702
OCCAREA		Constructed Occupation Area	703-704
RAGE_M		Recode: Sample member's age as of 5/31/99	705-706

CONFIDENTIAL VARIABLES - SURVEY

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9903A	U3A.	Uned wk mr 12 mo reas, n/a	707
UM9903B	U3B	Uned wk mr 12 mo reas, mission crit require	708
UM9903C	U3C.	Uned wk mr 12 mo reas, mission prp/trng/mnt	709
UM9903D	U3D.	Uned wk mr 12 mo reas, addl duty/spec proj	710
UM9903E	U3E.	Uned wk mr 12 mo reas, unit prep deployment	711
UM9903F	U3F.	Uned wk mr 12 mo reas, insuff billets	712
UM9903G	U3G.	Uned wk mr 12 mo reas, unit under-manned	713
UM9903H	U3H.	Uned wk mr 12 mo reas, part of unit deploy	714
UM9903I	U3I.	Uned wk mr 12 mo reas, demanding supervisor	715
UM9903J	U3J.	Uned wk mr 12 mo reas, prob w/subordinates	716
UM9903K	U3K.	Uned wk mr 12 mo reas, high workload	717
UM9903L	U3L.	Uned wk mr 12 mo reas, poor/lack planning	718
UM9903M	U3M.	Uned wk mr 12 mo reas, others not working	719
UM9903N	U3N.	Uned wk mr 12 mo reas, inspects/inspct prep	720
UM9903O	U3O.	Uned wk mr 12 mo reas, equip failure/repair	721
UM9903P	U3P.	Uned wk mr 12 mo reas, none of the above	722
M9904	4.	Currently assngd to ship or shore duty	723
M9905	5.	Where perm duty station located	724
M9907	7.	Where currently deployed	725
UM9907	U7.	Uned where currently deployed	726
UM9910A	U10A.	Uned choose res - no choice	727
UM9910B	U10B.	Uned choose res - best value for money	728
UM9910C	U10C.	Uned choose res - safety and security	729
UM9910D	U10D.	Uned choose res - close to workplace	730
UM9910E	U10E.	Uned choose res - close to base, svcs, prog	731
UM9910F	U10F.	Uned choose res - spouses choice	732
UM9910G	U10G.	Uned choose res - better schools	733
UM9910H	U10H.	Uned choose res - fewer rules	734
UM9910I	U10I.	Uned choose res - privacy	735
UM9910J	U10J.	Uned choose res - want spec area/community	736
UM9910K	U10K.	Uned choose res - available right away	737
UM9910L	U10L.	Uned choose res - mil housing unavailable	738
UM9910M	U10M.	Uned choose res - civilian housing unavail	739
UM9910N	U10N.	Uned choose res - btr than mil on/off base	740
UM9910O	U10O.	Uned choose res - better than civ housing	741
UM9910P	U10P.	Uned choose res - wanted military neighbors	742
UM9910Q	U10Q.	Uned choose res - wanted civilian neighbors	743
UM9910R	U10R.	Uned choose res - other	744
UM9913A	U13A.	Uned rec PCS prob, change in PCS date	745
UM9913B	U13B.	Uned rec PCS prob, hr of PCS assist office	746
UM9913C	U13C.	Uned rec PCS prob, wait for perm house	747
UM9913D	U13D.	Uned rec PCS prob, sell/rent frmr rsdnc	748
UM9913E	U13E.	Uned rec PCS prob, buy/rent crrnt rsdnc	749

CONFIDENTIAL VARIABLES - SURVEY

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9913F	U13F.	Uned rec PCS prob, time to prepare move	750
UM9913G	U13G.	Uned rec PCS prob, ship/store hshld gds	751
UM9913H	U13H.	Uned rec PCS prob, TAD/TDY en route	752
UM9913I	U13I.	Uned rec PCS prob, temp lodge expense	753
UM9913J	U13J.	Uned rec PCS prob, cost of scrty dpst	754
UM9913K	U13K.	Uned rec PCS prob, cost to move pets	755
UM9913L	U13L.	Uned rec PCS prob, cost to move vhcle	756
UM9913M	U13M.	Uned rec PCS prob, cost new pnt/carpet	757
UM9913N	U13N.	Uned rec PCS prob, settle damage claims	758
UM9913O	U13O.	Uned rec PCS prob, unpaid trans costs	759
UM9913P	U13P.	Uned rec PCS prob, timeliness reimburse	760
UM9913Q	U13Q.	Uned rec PCS prob, accuracy reimburse	761
UM9913R	U13R.	Uned rec PCS prob, time off at dest	762
UM9913S	U13S.	Uned rec PCS prob, chng in cost of lvng	763
UM9913T	U13T.	Uned rec PCS prob, loss/decrease sp pay	764
UM9913U	U13U.	Uned rec PCS prob, spouse employment	765
UM9913V	U13V.	Uned rec PCS prob, trnsfr entitlmnt py	766
UM9913W	U13W.	Uned rec PCS prob, get special edu svcs	767
UM9913X	U13X.	Uned rec PCS prob, sp/dep change schls	768
UM9913Y	U13Y.	Uned rec PCS prob, trnsfr college crdts	769
UM9913Z	U13Z.	Uned rec PCS prob, avail of child care	770
UM9915	U15.	Uned past 12 mo, times away overnight	771
M9916A	16A.	12 mo away, peacekeeping/contingency op	772
M9916B	16B.	12 mo away, foreign humanitarian assist	773
M9916C	16C.	12 mo away, unit trng-combat trng center	774
M9916D	16D.	12 mo away, counter drug operation	775
M9916E	16E.	12 mo away, domestic disaster/civil emer	776
M9916F	16F.	12 mo away, scheduled deployment at sea	777
M9916G	16G.	12 mo away, other time at sea	778
M9916H	16H.	12 mo away, joint trng/field exercises	779
M9916I	16I.	12 mo away, military education	780
M9916J	16J.	12 mo away, other TADs/TDYs	781
UM9916A	U16A.	Uned 12 mo away, peacekping/contingency op	782
UM9916B	U16B.	Uned 12 mo away, frgn humanitarian assist	783
UM9916C	U16C.	Uned 12 mo away, unit trng-combat trng cntr	784
UM9916D	U16D.	Uned 12 mo away, counter drug operation	785
UM9916E	U16E.	Uned 12 mo away, domestic disaster/civ emer	786
UM9916F	U16F.	Uned 12 mo away, scheduled deploy at sea	787
UM9916G	U16G.	Uned 12 mo away, other time at sea	788
UM9916H	U16H.	Uned 12 mo away, joint trng/field exercises	789
UM9916I	U16I.	Uned 12 mo away, military education	790
UM9916J	U16J.	Uned 12 mo away, other TADs/TDYs	791
M9917	17.	Past 12 mo, total time away for mil duty	792

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
		CONFIDENTIAL VARIABLES - SURVEY	
UM9917	U17.	Uned past 12 mo, total time away mil duty	793
UM9918A	U18A.	Uned 12 mo concern, manage expenses/bills	794
UM9918B	U18B.	Uned 12 mo concern, hh repair, cars, maint	795
UM9918C	U18C.	Uned 12 mo concern, store/secure prsnl item	796
UM9918D	U18D.	Uned 12 mo concern, pet care	797
UM9918E	U18E.	Uned 12 mo concern, interrupt off duty educ	798
UM9918F	U18F.	Uned 12 mo concern, loss of part time job	799
UM9918G	U18G.	Uned 12 mo concern, able to commun w/family	800
UM9918H	U18H.	Uned 12 mo concern, safety of fam in commun	801
UM9918I	U18I.	Uned 12 mo concern, spouse job/educ demands	802
UM9918J	U18J.	Uned 12 mo concern, childcare arrangements	803
UM9918K	U18K.	Uned 12 mo concern, eldercare	804
UM9918L	U18L.	Uned 12 mo concern, child(ren)s education	805
UM9918M	U18M.	Uned 12 mo concern, serious health prob/fam	806
UM9918N	U18N.	Uned 12 mo concern, divorce/marital problem	807
UM9918O	U18O.	Uned 12 mo concern, birth/adoption of child	808
UM9918P	U18P.	Uned 12 mo concern, your/spouse pregnancy	809
UM9918Q	U18Q.	Uned 12 mo concern, death of family member	810
UM9918R	U18R.	Uned 12 mo concern, fin prob/bnkrpt in fam	811
UM9918S	U18S.	Uned 12 mo concern, disaster repair to home	812
UM9918T	U18T.	Uned 12 mo concern, other (specify)	813
UM9923A	U23A.	Uned join AD, trouble in schl, needed break	814
UM9923B	U23B.	Uned join AD, away from family, hometown	815
UM9923C	U23C.	Uned join AD, decide what to do	816
UM9923D	U23D.	Uned join AD, test self physically/mentally	817
UM9923E	U23E.	Uned join AD, challenging, interesting work	818
UM9923F	U23F.	Uned join AD, always want to be in military	819
UM9923G	U23G.	Uned join AD, military tradition in family	820
UM9923H	U23H.	Uned join AD, parents encouragement	821
UM9923I	U23I.	Uned join AD, desire to serve your country	822
UM9923J	U23J.	Uned join AD, image given by mil personnel	823
UM9923K	U23K.	Uned join AD, few/no civ job opportunity	824
UM9923L	U23L.	Uned join AD, pay and allowance(s)	825
UM9923M	U23M.	Uned join AD, retirement pay and benefits	826
UM9923N	U23N.	Uned join AD, security and stability of job	827
UM9923O	U23O.	Uned join AD, oppty to work in specific occ	828
UM9923P	U23P.	Uned join AD, train in skills for civ occ	829
UM9923Q	U23Q.	Uned join AD, family benefits	830
UM9923R	U23R.	Uned join AD, travel and new experiences	831
UM9923S	U23S.	Uned join AD, money for college/educ bnfts	832
UM9923T	U23T.	Uned join AD, personal growth and maturity	833
UM9923U	U23U.	Uned join AD, other	834
UM9927	U27.	Uned receive mil occup of choice	835

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
		CONFIDENTIAL VARIABLES - SURVEY	
M9929	29.	Term of service serving now	836
M9930	30.	Time remaining in current term or oblig	837
UM9930	U30.	Uned time remain in current term or oblig	838
UM9931	U31.	Uned lkly allow to stay in svc-end of oblig	839
M9936	36.	When leave, yrs of svc expected	840
UM9948A	U48A.	Uned past 6mo thought seriously of lv mil	841
UM9948B	U48B.	Uned past 6mo wondered about civilian life	842
UM9948C	U48C.	Uned past 6mo discussd leavng w family/frie	843
UM9948D	U48D.	Uned past 6mo talkd of leavng w immd suprvi	844
UM9948E	U48E.	Uned past 6mo gatherd info on educ prgrm/co	845
UM9948F	U48F.	Uned past 6mo gatherd info on civ job optio	846
UM9948G	U48G.	Uned past 6mo attended prgrm on civ employm	847
UM9948H	U48H.	Uned past 6mo prepared a resume	848
UM9948I	U48I.	Uned past 6mo applied for a job	849
UM9948J	U48J.	Uned past 6mo interviewed for a job	850
UM9948K	U48K.	Uned past 6mo none of the above	851
M9952A01	52A01.	Avg mo use of onbase fitness center/gym	852
M9952A02	52A02.	Avg mo use of onbase library services	853
M9952A03	52A03.	Avg mo use of onbase outdoor rec areas	854
M9952A04	52A04.	Avg mo use of onbase outdoor rec equip	855
M9952A05	52A05.	Avg mo use of onbase recreation center	856
M9952A06	52A06.	Avg mo use of onbase golf courses	857
M9952A07	52A07.	Avg mo use of onbase bowling center	858
M9952A08	52A08.	Avg mo use of onbase rec lodging, resort	859
M9952A09	52A09.	Avg mo use of onbase clubs/danc/nghtclub	860
M9952A10	52A10.	Avg mo use of onbase commissary/grocery	861
M9952A11	52A11.	Avg mo use of onbase exchange/dept store	862
M9952A12	52A12.	Avg mo use of onbase social activities	863
M9952A13	52A13.	Avg mo use of onbase auto,craft,hobby sh	864
M9952B01	52B01.	Av mo use civ offbase fitness center/gym	865
M9952B02	52B02.	Av mo use civ offbase library services	866
M9952B03	52B03.	Av mo use civ offbase outdoor rec areas	867
M9952B04	52B04.	Av mo use civ offbase outdoor rec equip	868
M9952B05	52B05.	Av mo use civ offbase recreation center	869
M9952B06	52B06.	Av mo use civ offbase golf courses	870
M9952B07	52B07.	Av mo use civ offbase bowling center	871
M9952B08	52B08.	Av mo use civ offbase rec lodging,resort	872
M9952B09	52B09.	Av mo use civ offbase club/danc/nghtclub	873
M9952B10	52B10.	Av mo use civ offbase commissary/grocery	874
M9952B11	52B11.	Av mo use civ offbase exchange/dept store	875
M9952B12	52B12.	Av mo use civ offbase social activities	876
M9952B13	52B13.	Av mo use civ offbase auto,crft,hobby sh	877
M9953C	53C.	Past yr used pgm/svcs: Tech/voctnl pgm	878

CONFIDENTIAL VARIABLES - SURVEY

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
M9953D	53D.	Past yr used pgm/svcs: Basic sklls edu	879
SRMARST	54.	What is your marital status	880
M9955A	55A.	Sp curr serving on active duty	881
M9955B	55B.	Sp curr Natl Gd/Res in active duty prog	882
M9955C	55C.	Sp curr other Natl Guard or Reserve prog	883
M9955D	55D.	Sp curr work in Fed civ job full time	884
M9955E	55E.	Sp curr work in Fed civ job part time	885
M9955F	55F.	Sp curr work civ job on base full time	886
M9955G	55G.	Sp curr work civ job on base part time	887
M9955H	55H.	Sp curr work civ job off base full time	888
M9955I	55I.	Sp curr work civ job off base part time	889
M9955J	55J.	Sp curr manage/work in family business	890
M9955K	55K.	Sp curr self empl own bus or profession	891
M9955L	55L.	Sp curr unemployed, looking for work	892
M9955M	55M.	Sp curr in school	893
M9955N	55N.	Sp curr homemaker/housewife/househusband	894
M9955O	55O.	Sp curr retired	895
M9955P	55P.	Sp curr other (specify)	896
UM9955A	U55A.	Uned sp curr serving on active duty	897
UM9955B	U55B.	Uned sp curr Natl Gd/Res in active dty prog	898
UM9955C	U55C.	Uned sp curr other Natl Guard or Res prog	899
UM9955D	U55D.	Uned sp curr work in Fed civ job full time	900
UM9955E	U55E.	Uned sp curr work in Fed civ job part time	901
UM9955F	U55F.	Uned sp curr work civ job on base full time	902
UM9955G	U55G.	Uned sp curr work civ job on base part time	903
UM9955H	U55H.	Uned sp curr work civ job off base FT	904
UM9955I	U55I.	Uned sp curr work civ job off base PT	905
UM9955J	U55J.	Uned sp curr manage/work in family business	906
UM9955K	U55K.	Uned sp curr self empl own bus/profession	907
UM9955L	U55L.	Uned sp curr unemployed, looking for work	908
UM9955M	U55M.	Uned sp curr in school	909
UM9955N	U55N.	Uned sp curr homemaker/hswife/hshusband	910
UM9955O	U55O.	Uned sp curr retired	911
UM9955P	U55P.	Uned sp curr other (specify)	912
PREDUC	56.	Spouse's educ highest degree/level cmp	913
PREDUCA	56A.	Sp ed cmpl, 11th grade or less	914
PREDUCB	56B.	Sp ed cmpl, 12 yrs of school, no diploma	915
PREDUCC	56C.	Sp ed cmpl, high school diploma or GED	916
PREDUCD	56D.	Sp ed cmpl, less than 1 year college	917
PREDUCE	56E.	Sp ed cmpl, 1 or more yr coll, no degree	918
PREDUCF	56F.	Sp ed cmpl, associate degree (AA, AS)	919
PREDUCG	56G.	Sp ed cmpl, bachelor degree (BA, BS)	920
PREDUCH	56H.	Sp ed cmpl, masters, doctorate, prof	921

CONFIDENTIAL VARIABLES - SURVEY

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
PREDUCHI	56HI.	Spouse's educ highest degree/level school	922
UPREDUC	U56.	Uned sp educ highest degree/level cmp	923
UPREDUCA	56A.	Uned sp ed cmpl, 11th grade or less	924
UPREDUCB	56B.	Uned sp ed cmpl, 12 yrs of school, no dplma	925
UPREDUCC	56C.	Uned sp ed cmpl, high school diploma or GED	926
UPREDUCD	56D.	Uned sp ed cmpl, less than 1 year college	927
UPREDUCE	56E.	Uned sp ed cmpl, 1 or more yr coll, no dgr	928
UPREDUCF	56F.	Uned sp ed cmpl, associate degree (AA, AS)	929
UPREDUCG	56G.	Uned sp ed cmpl, bachelor degree (BA, BS)	930
UPREDUCH	56H.	Uned sp ed cmpl, masters, doctorate, prof	931
UPREDHI	U56HI.	Uned sp educ highest degree/level school	932
M9957	57.	How many times have you been divorced	933
UM9957	U57.	Uned how many times have you been divorced	934
M9959A	59A.	Num. child/legal dep - under 1 year	935
M9959B	59B.	Num. child/legal dep - 1 to under 2 year	936
M9959C	59C.	Num. child/legal dep - 2-5 years	937
M9959D	59D.	Num. child/legal dep - 6-13 years	938
M9959E	59E.	Num. child/legal dep - 14-22 years	939
M9959F	59F.	Num. child/legal dep - 23-64 years	940
M9959G	59G.	Num. child/legal dep - 65 years or older	941
UM9959A	U59A.	Uned num. child/legal dep - under 1 year	942
UM9959B	U59B.	Uned num. child/legal dep - 1 to under 2 yr	943
UM9959C	U59C.	Uned num. child/legal dep - 2-5 years	944
UM9959D	U59D.	Uned num. child/legal dep - 6-13 years	945
UM9959E	U59E.	Uned num. child/legal dep - 14-22 years	946
UM9959F	U59F.	Uned num. child/legal dep - 23-64 years	947
UM9959G	U59G.	Uned num. child/legal dep - 65 years or old	948
M9960A	60A.	Child/dep home, under 1 year old	949
M9960B	60B.	Child/dep home, 1 year to under 2 years	950
M9960C	60C.	Child/dep home, 2-5 years old	951
M9960D	60D.	Child/dep home, 6-13 years old	952
M9960E	60E.	Child/dep home, 14-22 years old	953
M9960F	60F.	Child/dep home, 23-64 years old	954
M9960G	60G.	Child/dep home, 65 years old or older	955
UM9960A	U60A.	Uned child/dep home, under 1 year old	956
UM9960B	U60B.	Uned child/dep home, 1 year to under 2 year	957
UM9960C	U60C.	Uned child/dep home, 2-5 years old	958
UM9960D	U60D.	Uned child/dep home, 6-13 years old	959
UM9960E	U60E.	Uned child/dep home, 14-22 years old	960
UM9960F	U60F.	Uned child/dep home, 23-64 years old	961
UM9960G	U60G.	Uned child/dep home, 65 years old or older	962
M9961A	61A.	Child/dep away, under 1 year old	963
M9961B	61B.	Child/dep away, 1 year to under 2 years	964

CONFIDENTIAL VARIABLES - SURVEY

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
M9961C	61C.	Child/dep away, 2-5 years old	965
M9961D	61D.	Child/dep away, 6-13 years old	966
M9961E	61E.	Child/dep away, 14-22 years old	967
M9961F	61F.	Child/dep away, 23-64 years old	968
M9961G	61G.	Child/dep away, 65 years old or older	969
UM9961A	U61A.	Uned child/dep away, under 1 year old	970
UM9961B	U61B.	Uned child/dep away, 1 year to under 2 year	971
UM9961C	U61C.	Uned child/dep away, 2-5 years old	972
UM9961D	U61D.	Uned child/dep away, 6-13 years old	973
UM9961E	U61E.	Uned child/dep away, 14-22 years old	974
UM9961F	U61F.	Uned child/dep away, 23-64 years old	975
UM9961G	U61G.	Uned child/dep away, 65 years old or older	976
UM9962A	U62A.	Uned not applicable, have not used any	977
UM9962B	U62B.	Uned 12 mo care, other parent or stepparent	978
UM9962C	U62C.	Uned 12 mo care, brother/sister 15 or older	979
UM9962D	U62D.	Uned 12 mo care, brother/sister < 15	980
UM9962E	U62E.	Uned 12 mo care, grandparent	981
UM9962F	U62F.	Uned 12 mo care, other relative	982
UM9962G	U62G.	Uned 12 mo care, friend or neighbor	983
UM9962H	U62H.	Uned 12 mo care, sitter, nanny or au pair	984
UM9962I	U62I.	Uned 12 mo care, preschool (on base)	985
UM9962J	U62J.	Uned 12 mo care, preschool (off base)	986
UM9962K	U62K.	Uned 12 mo care, child devel ctr (on base)	987
UM9962L	U62L.	Uned 12 mo care, day care center (off base)	988
UM9962M	U62M.	Uned 12 mo care, family care home (on base)	989
UM9962N	U62N.	Uned 12 mo care, care prov home (off base)	990
UM9962O	U62O.	Uned 12 mo care, schl age cr prog (on base)	991
UM9962P	U62P.	Uned 12 mo care, after schl prog (off base)	992
UM9962Q	U62Q.	Uned 12 mo care, fed spprt Head Start prog	993
UM9962R	U62R.	Uned 12 mo care, none of the above	994
UM9963	U63.	Uned num child reg used childcare arrangmnt	995
UM9964A	U64A.	Uned total spent, does not apply	996
M9964B	64B.	Monthly childcare expenses	997
UM9964B	U64B.	Uned monthly childcare expenses	998
UM9965	U65.	Uned past 12 mo, any change in childcare	999
UM9966A	U66A.	Uned reas chng, school start, end, change	1000
UM9966B	U66B.	Uned reas chng, mil assign start, end, chng	1001
UM9966C	U66C.	Uned reas chng, sp schl start, end, chng	1002
UM9966D	U66D.	Uned reas chng, cost	1003
UM9966E	U66E.	Uned reas chng, avail/hours of provider	1004
UM9966F	U66F.	Uned reas chng, reliability of provider	1005
UM9966G	U66G.	Uned reas chng, quality of care provided	1006
UM9966H	U66H.	Uned reas chng, provider loc/accessibility	1007

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VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9966I	U66I.	Uned reas chng, never had reg arrangement	1008
UM9966J	U66J.	Uned reas chng, child outgrew arrangement	1009
UM9966K	U66K.	Uned reas chng, no longer elig for assist	1010
UM9966L	U66L.	Uned reas chng, arrangement no longer avail	1011
UM9966M	U66M.	Uned reas chng, other (specify)	1012
UM9967	U67.	Uned past 12 mo, lost work for childcr chng	1013
UM9968	U68.	Uned have child enrolled in school	1014
M9969	69.	Type of school youngest child attends	1015
UM9969	U69.	Uned type of school youngest child attends	1016
M9970	70.	Hrs/week	1017
UM9970	U70.	Uned hrs/week	1018
UM9971A	U71A.	Uned rate schl, overall academic program	1019
UM9971B	U71B.	Uned rate schl, support svcs prov by school	1020
UM9971C	U71C.	Uned rate schl, special education programs	1021
UM9971D	U71D.	Uned rate schl, physcl plant (bldgs, etc.)	1022
UM9971E	U71E.	Uned rate schl, avail extracurric activity	1023
UM9971F	U71F.	Uned rate schl, safety of school	1024
UM9971G	U71G.	Uned rate schl, overall quality of school	1025
UM9972A	U72A.	Uned schl act, conference/mtg with teachers	1026
UM9972B	U72B.	Uned schl act, wk w/teacher promote achieve	1027
UM9972C	U72C.	Uned schl act, collaborate educ opp for all	1028
UM9972D	U72D.	Uned schl act, plan/impl curric/extra activ	1029
UM9972E	U72E.	Uned schl act, prob solv to prmte learning	1030
UM9972F	U72F.	Uned schl act, none of the above	1031
M9973	73.	Chld, spouse, othr in EFMP or CSNP	1032
UM9975	U75.	Uned num of elderly fam members cared for	1033
UM9976	U76.	Uned past 12 mo, lose work to eldercr resp	1034
UM9977A	U77A.	Uned sat hlth, out of pocket cost for care	1035
UM9977B	U77B.	Uned sat hlth, skill phys/other providers	1036
UM9977C	U77C.	Uned sat hlth, availability of specialists	1037
UM9977D	U77D.	Uned sat hlth, ability to get appointments	1038
UM9977E	U77E.	Uned sat hlth, waiting time in the clinic	1039
UM9977F	U77F.	Uned sat hlth, overall quality of care	1040
UM9977G	U77G.	Uned sat hlth, admin req (paperwork, etc.)	1041
UM9979A	U79A.	Uned no vol, not asked to volunteer	1042
UM9979B	U79B.	Uned no vol, did not have time to volunteer	1043
UM9979C	U79C.	Uned no vol, no childcare, could not volunt	1044
UM9979D	U79D.	Uned no vol, not interested in vlntr work	1045
UM9979E	U79E.	Uned no vol, did not have transportation	1046
UM9979F	U79F.	Uned no vol, none of the above	1047
M9982B	82B.	No fam, legal separation or divorce	1048
M9982C	82C.	No fam, temp unaccomp, fam join me later	1049
M9982D	82D.	No fam, perm unaccomp, billet required	1050

CONFIDENTIAL VARIABLES - SURVEY

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
M9982E	82E.	No fam, perm unaccomp, overseas tour	1051
M9982F	82F.	No fam, perm unaccomp, no hh move w/PCS	1052
M9982G	82G.	No fam, spouse career	1053
M9982H	82H.	No fam, spouse education	1054
M9982I	82I.	No fam, child(ren)s education	1055
M9982J	82J.	No fam, health/illness of family member	1056
M9982K	82K.	No fam, eldercare responsibilities	1057
M9982L	82L.	No fam, other (specify)	1058
UM9982A	U82A.	Uned no fam, n/a, I have no family members	1059
UM9982B	U82B.	Uned no fam, legal separation or divorce	1060
UM9982C	U82C.	Uned no fam, temp unaccomp, fam join later	1061
UM9982D	U82D.	Uned no fam, perm unaccomp, billet required	1062
UM9982E	U82E.	Uned no fam, perm unaccomp, overseas tour	1063
UM9982F	U82F.	Uned no fam, perm unaccomp, no hh move w/PC	1064
UM9982G	U82G.	Uned no fam, spouse career	1065
UM9982H	U82H.	Uned no fam, spouse education	1066
UM9982I	U82I.	Uned no fam, child(ren)s education	1067
UM9982J	U82J.	Uned no fam, health/illness of family mem	1068
UM9982K	U82K.	Uned no fam, eldercare responsibilities	1069
UM9982L	U82L.	Uned no fam, other (specify)	1070
M9983	83.	How many times did fam move due to PCS	1071
UM9984A	U84A.	Uned mil rel, parent or guardian	1072
UM9984B	U84B.	Uned mil rel, spouse	1073
UM9984C	U84C.	Uned mil rel, brother or sister	1074
M9984D	84D.	Mil rel, son or daughter	1075
UM9984D	U84D.	Uned mil rel, son or daughter	1076
UM9984E	U84E.	Uned mil rel, grandparent	1077
UM9984F	U84F.	Uned mil rel, uncle or aunt	1078
UM9984G	U84G.	Uned mil rel, cousin	1079
UM9984H	U84H.	Uned mil rel, other close relative	1080
UM9984I	U84I.	Uned mil rel, no rel served on active duty	1081
M9986	86.	Hrs/wk civ job/own bus	1082
UM9986	U86.	Uned hrs/wk civ job/own bus	1083
UM9987A	U87A.	Uned 12 mo income, second job	1084
UM9987B	U87B.	Uned 12 mo income, alimony	1085
UM9987C	U87C.	Uned 12 mo income, child support	1086
UM9987D	U87D.	Uned 12 mo income, Supplemental Social Sec	1087
UM9987E	U87E.	Uned 12 mo income, unemployment/wrkrs comp	1088
UM9987F	U87F.	Uned 12 mo income, state pd childcr assist	1089
UM9987G	U87G.	Uned 12 mo income, WIC	1090
UM9987H	U87H.	Uned 12 mo income, food stamp program	1091
UM9987I	U87I.	Uned 12 mo income, Head Start program	1092
UM9987J	U87J.	Uned 12 mo income, AFDC	1093

CONFIDENTIAL VARIABLES - SURVEY

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
UM9987K	U87K.	Uned 12 mo income, Medicaid	1094
UM9987L	U87L.	Uned 12 mo income, other (specify)	1095
UM9996A	U96A.	12 mo event, bounced 2 or more checks	1096
UM9996B	U96B.	12 mo event, late pay ltr commnd officer	1097
UM9996C	U96C.	12 mo event, had wages garnished	1098
UM9996D	U96D.	12 mo event, behind on rent or mortgage	1099
UM9996E	U96E.	12 mo event, behind cr cd, AAFES, NEXCOM	1100
UM9996F	U96F.	12 mo event, pressured by stores, credit	1101
UM9996G	U96G.	12 mo event, bill coll called unit leader	1102
UM9996H	U96H.	12 mo event, pawned/sold valuables	1103
UM9996I	U96I.	12 mo event, borrow from friend/relative	1104
UM9996J	U96J.	12 mo event, Emer Loan, Service Aid Soc	1105
UM9996K	U96K.	12 mo event, utilities shut off	1106
UM9996L	U96L.	12 mo event, car, appl, furn repossessed	1107
UM9996M	U96M.	12 mo event, could not afford med care	1108
UM9996N	U96N.	12 mo event, went bankrupt	1109
UM9996O	U96O.	12 mo event, none of the above	1110
SRSEX	101.	Are you:	1111
SRHISP	103.	Are you Spanish/Hispanic/Latino	1112
SRRACEA	104A.	Race: White	1113
SRRACEB	104B.	Race: Black or African-American	1114
SRRACEC	104C.	Race: American Indian or Alaska Native	1115
SRRACED	104D.	Race: Asian	1116
SRRACEE	104E.	Race: Native Hawaiian or otr Pacific Is	1117
SRRACEF	104F.	Some other race (specify):	1118
SRRACESP	104SP.	What is your race-SP	1119
M99105	105.	At time first active amt educ completed	1120
M99105A	105A.	Edu whn fst active: 11th or less	1121
M99105B	105B.	Edu whn fst active: 12 yrs,no diploma	1122
M99105C	105C.	Edu whn fst active: HS graduate	1123
M99105D	105D.	Edu whn fst active: Some college crdt	1124
M99105E	105E.	Edu whn fst active: 1/more yr college	1125
M99105F	105F.	Edu whn fst active: Associate degree	1126
M99105G	105G.	Edu whn fst active: Bachelor's degree	1127
M99105H	105H.	Edu whn fst active: Master's,doct,prof	1128
M99105HI	105HI.	Highest level of educ when first actv	1129
SRED	106.	Hghst lvl edu that you've cmpltd	1130
SREDA	106A.	Hghst lvl edu: 11th grade or less	1131
SREDB	106B.	Hghst lvl edu: 12 years of school	1132
SREDC	106C.	Hghst lvl edu: High school graduate	1133
SREDD	106D.	Hghst lvl edu: Some college credit	1134
SREDE	106E.	Hghst lvl edu: 1/more years of college	1135
SREDF	106F.	Hghst lvl edu: Associate degree	1136

CONFIDENTIAL VARIABLES - SURVEY

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
SREDG	106G.	Hghst lvl edu: Bachelor's degree	1137
SREDH	106H.	Hghst lvl edu: Master's,doctoral,prof	1138
SREDHI	106H.	Hghst lvl edu that you've cmpltd	1139
M99107	107.	Current serv active duty or Grd/Reserve	1140
SRSVC	108.	In what Service are you?	1141
SRGRADE	109.	What is your current paygrade	1142
M99110	110.	Hw many yrs active duty srvc completed	1143
SRDATEMM	111MM.	What date complete survey, month	1144
SRDATEDD	111DD.	What date complete survey, day	1145-1146
SRDATEYY	111YY.	What date complete survey, year	1147

CONFIDENTIAL VARIABLES - ANALYSIS

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
XMIMPLF		Imputation Flag for Constructed Duty Loc	1148
XMIMPMF		Imputation Flag for Cnstrctd Marital Stat	1149
XMIMPXF		Imputation Flag for Constructed Gender	1150
XRETH1		Constructed Race/Eth Based on 1997 Standard	1151-1152
R1XRETH1		Constructed Race/Ethnicity: 7 level-Recoded	1153
XMIMPPF		Imputation Flag for Constructed Paygrade	1154
XMIMPSF		Imputation Flag for Constructed Service	1155

CONFIDENTIAL VARIABLES - OPERATIONS

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
ARVDATE		Arrival date	1156-1158
BATCH		DRC Batch number applied for scanning	1159-1165
BLKREAS		Reason Survey Returned Blank	1166
DUPRET		Multiple Returns -- Excludes Blanks	1167
DUPRET2		Multiple Returns -- Includes Blanks	1168
INRECNO		Master SCS ID number	1169
LITHO		Survey Mail Identification Number	1170
MAILING		Mailing number	1171
MAILTYP		Mailing Type	1172
REFUSE		Refusals	1173
SCANDATE		Date Survey Scanned	1174-1175
SCSINEL		Flagged Ineligible in Survey Control System	1176
SERIAL		Serial number applied for scanning	1177

CONFIDENTIAL VARIABLES - SAMPLING & RECORD DATA

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
AGE_M		Sample member's current age (as of 5/31/99)	1178-1179
BAQ		Member's Bsc Allwnce for Qrtrs Status Code	1180
CCONUS		Constructed location group/Conus/Oconus	1181
CPAYGRP1		Constructed Pay Grade 1	1182
CPAYGRP2		Constructed Pay Grade 2	1183
CPAYGRP3		Constructed Pay Grade 3	1184
CRACECAT		Constructed Race Ethnic Category 2	1185
CSERVICE		Sample Member's constructed service	1186
D_ELIG		Combined DEERS eligibility	1187
DEPLOY		Sample Member Deployment Indicator	1188
DEPR		Member's nmbr of dpndnts reported in DEERS	1189
EDUC		Sample member's education	1190-1191
EER_M		DEERS End Eligibility Reason	1192
ELGCDE_M		DEERS eligibility code	1193
ETH		Sample member ethnic group code	1194
ETSDATE		Sample member's ETS date	1195
LOCATIN		Constructed location group/territory	1196
MARITAL		Member's marital status code	1197
MEMLOC		Member location	1198-1200
NSAMP_A		Member stratum level sample size	1201
NSTRAT_A		Member stratum level population count	1202
OCCGRP		Constructed Occupation Groups	1203-1208
ONOFF		Constructed on/off base living indicator	1209
PAYGRDE		Sample member's paygrade	1210
PILOT		Constructed Pilot	1211
RACECAT		Sample member's race code	1212
RETH		Sample Member's race ethnic code	1213
SERVICE		Sample Member Service	1214
SEX_M		Member's gender	1215
SHIP		Sample member's ship indctr code (MC only)	1216
SINGPAR		Constructed single parent indicator	1217
SOC		Member's Source of Commission (Offcrs only)	1218-1219
STRAT		Stratum Number	1220
TAFMS		Total Active Federal Military Service	1221
YOS		Member's years of active duty service	1222

CONFIDENTIAL VARIABLES - WEIGHTING

VARIABLE NAME	ITEM NUMBER	LABEL	PAGE(S) IN APPENDIX G
CQ39		Questions Q39A-Q39KK Completeness Indicator	1223
CQ50		Questions Q50A-Q50M Completeness Indicator	1224
CQ52		Questions Q52A01-Q52B13 Completeness Indctr	1225
FLAG_FIN		Final disposition flag	1226
MATCH		Match of sample record	1227
PROMO		Promotion variable	1228
PSTATUSA		Poststratification Disposition Code	1229
QCOMP		Sample record completeness variable	1230
RSTATUSA		Assigned disposition of a sample record	1231

Appendix G

Frequency and Percentage Distributions for Variables in the Survey Analysis Files

This appendix is in a separate file.

Appendix H

Flat File (OS) Layout for the Public-release File

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
M9901	Num	0001	0002	02	Last 12 mo, hours worked per week
M9902	Num	0003	0004	02	Last full work wk, how many hours
M9903A	Num	0005	0008	04	Wk mr 12 mo reas, n/a
M9903B	Num	0009	0012	04	Wk mr 12 mo reas, mission crit require
M9903C	Num	0013	0016	04	Wk mr 12 mo reas, mission prep/trng/mnt
M9903D	Num	0017	0020	04	Wk mr 12 mo reas, addl duties/spec proj
M9903E	Num	0021	0024	04	Wk mr 12 mo reas, unit prep deployment
M9903F	Num	0025	0028	04	Wk mr 12 mo reas, insuff billets
M9903G	Num	0029	0032	04	Wk mr 12 mo reas, unit under-manned
M9903H	Num	0033	0036	04	Wk mr 12 mo reas, part of unit deployed
M9903I	Num	0037	0040	04	Wk mr 12 mo reas, demanding supervisor
M9903J	Num	0041	0044	04	Wk mr 12 mo reas, prob w/subordinates
M9903K	Num	0045	0048	04	Wk mr 12 mo reas, high workload
M9903L	Num	0049	0052	04	Wk mr 12 mo reas, poor/lack planning
M9903M	Num	0053	0056	04	Wk mr 12 mo reas, others not working
M9903N	Num	0057	0060	04	Wk mr 12 mo reas, inspects/inspect prep
M9903O	Num	0061	0064	04	Wk mr 12 mo reas, equip failure/repairs
M9903P	Num	0065	0068	04	Wk mr 12 mo reas, none of the above
M9906	Num	0069	0070	02	Curr deployed-away 30 consec day
M9906SK	Num	0071	0072	02	Curr deployed-away 30 consec day SK
M9908	Num	0073	0074	02	Live where at permanent duty station
M9909A	Num	0075	0076	02	Satis w/res/comm - cost of residence
M9909B	Num	0077	0078	02	Satis w/res/comm - qual/condition of res
M9909C	Num	0079	0080	02	Satis w/res/comm - amt of livable space
M9909D	Num	0081	0082	02	Satis w/res/comm - privacy of residence
M9909E	Num	0083	0084	02	Satis w/res/comm - quality of housing
M9909F	Num	0085	0086	02	Satis w/res/comm - safety where you live
M9909G	Num	0087	0088	02	Satis w/res/comm - distance to workplace
M9909H	Num	0089	0090	02	Satis w/res/comm - distance to shopping
M9909I	Num	0091	0092	02	Satis w/res/comm - distance to rec areas
M9910A	Num	0093	0096	04	Choose res - no choice
M9910B	Num	0097	0100	04	Choose res - best value for money
M9910C	Num	0101	0104	04	Choose res - safety and security
M9910D	Num	0105	0108	04	Choose res - close to workplace
M9910E	Num	0109	0112	04	Choose res - close to base, svcs, progs
M9910F	Num	0113	0116	04	Choose res - spouse's choice
M9910G	Num	0117	0120	04	Choose res - better schools
M9910H	Num	0121	0124	04	Choose res - fewer rules
M9910I	Num	0125	0128	04	Choose res - privacy
M9910J	Num	0129	0132	04	Choose res - want spec area/community
M9910K	Num	0133	0136	04	Choose res - available right away
M9910L	Num	0137	0140	04	Choose res - mil housing unavailable
M9910M	Num	0141	0144	04	Choose res - civilian housing unavail
M9910N	Num	0145	0148	04	Choose res - better than mil on/off base
M9910O	Num	0149	0152	04	Choose res - better than civ housing
M9910P	Num	0153	0156	04	Choose res - wanted military neighbors
M9910Q	Num	0157	0160	04	Choose res - wanted civilian neighbors
M9910R	Num	0161	0164	04	Choose res - other

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
M9911	Num	0165	0166	02	Cost equal mil or civ, where to live
M9912	Num	0167	0168	02	During AD career, how many PCSs
M9912SK	Num	0169	0170	02	During AD career, how many PCSs SK
M9913A	Num	0171	0172	02	Rec PCS prob, change in PCS date/dest
M9913B	Num	0173	0174	02	Rec PCS prob, hrs/loc of PCS assist ofc
M9913C	Num	0175	0176	02	Rec PCS prob, wait for perm housng avail
M9913D	Num	0177	0178	02	Rec PCS prob, sell/rent former residence
M9913E	Num	0179	0180	02	Rec PCS prob, buy/rent current residence
M9913F	Num	0181	0182	02	Rec PCS prob, time to prepare for move
M9913G	Num	0183	0184	02	Rec PCS prob, ship/store hshld goods
M9913H	Num	0185	0186	02	Rec PCS prob, TAD/TDY en route
M9913I	Num	0187	0188	02	Rec PCS prob, temp lodging expenses
M9913J	Num	0189	0190	02	Rec PCS prob, cost of security deposit
M9913K	Num	0191	0192	02	Rec PCS prob, cost to move pets
M9913L	Num	0193	0194	02	Rec PCS prob, cost to move vehicles
M9913M	Num	0195	0196	02	Rec PCS prob, cost new paint/carpet, etc
M9913N	Num	0197	0198	02	Rec PCS prob, settle damage claims
M9913O	Num	0199	0200	02	Rec PCS prob, unpaid trans costs of move
M9913P	Num	0201	0202	02	Rec PCS prob, timeliness reimbursements
M9913Q	Num	0203	0204	02	Rec PCS prob, accuracy reimbursements
M9913R	Num	0205	0206	02	Rec PCS prob, time off at dest to move
M9913S	Num	0207	0208	02	Rec PCS prob, change in cost of living
M9913T	Num	0209	0210	02	Rec PCS prob, loss/decrease spouse pay
M9913U	Num	0211	0212	02	Rec PCS prob, spouse employment
M9913V	Num	0213	0214	02	Rec PCS prob, transfer entitlemnt/SS pay
M9913W	Num	0215	0216	02	Rec PCS prob, get special education svcs
M9913X	Num	0217	0218	02	Rec PCS prob, spouse/dep change schools
M9913Y	Num	0219	0220	02	Rec PCS prob, transfer college credits
M9913Z	Num	0221	0222	02	Rec PCS prob, availability of child care
M9914	Num	0223	0224	02	Past 12 mo, away overnight for mil
M9914SK	Num	0225	0226	02	Past 12 mo, away overnight for mil SK
M9915	Num	0227	0228	02	Past 12 mo, how many times away overnite
M9918A	Num	0229	0232	04	12 mo concern, manage expenses and bills
M9918B	Num	0233	0236	04	12 mo concern, hh repair, cars, maint
M9918C	Num	0237	0240	04	12 mo concern, storage/secur pers items
M9918D	Num	0241	0244	04	12 mo concern, pet care
M9918E	Num	0245	0248	04	12 mo concern, interrupt off duty educ
M9918F	Num	0249	0252	04	12 mo concern, loss of part time job
M9918G	Num	0253	0256	04	12 mo concern, able to commun w/family
M9918H	Num	0257	0260	04	12 mo concern, safety of fam in commun
M9918I	Num	0261	0264	04	12 mo concern, spouse job/educ demands
M9918J	Num	0265	0268	04	12 mo concern, childcare arrangements
M9918K	Num	0269	0272	04	12 mo concern, eldercare
M9918L	Num	0273	0276	04	12 mo concern, child(ren)'s education
M9918M	Num	0277	0280	04	12 mo concern, serious health prob/fam
M9918N	Num	0281	0284	04	12 mo concern, divorce/marital problems
M9918O	Num	0285	0288	04	12 mo concern, birth/adoption of child
M9918P	Num	0289	0292	04	12 mo concern, your/spouse's pregnancy

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
M9918Q	Num	0293	0296	04	12 mo concern, death of family member
M9918R	Num	0297	0300	04	12 mo concern, fin prob/bankrupt in fam
M9918S	Num	0301	0304	04	12 mo concern, disaster repair to home
M9918T	Num	0305	0308	04	12 mo concern, other (specify)
M9918SP	Num	0309	0310	02	12 mo concern, other (specify) SP
M9919	Num	0311	0312	02	Past 12 mo, days on work not reg tasks
M9920A	Num	0313	0314	02	Unit prepared, manning level
M9920B	Num	0315	0316	02	Unit prepared, training
M9920C	Num	0317	0318	02	Unit prepared, parts and equipment
M9921	Num	0319	0320	02	Total time expected away for next 12 mo
M9922	Num	0321	0322	02	Career intent first entered active duty
M9923A	Num	0323	0326	04	Join AD, trouble in school, needed break
M9923B	Num	0327	0330	04	Join AD, away from family, hometown
M9923C	Num	0331	0334	04	Join AD, decide what to do
M9923D	Num	0335	0338	04	Join AD, test self physically, mentally
M9923E	Num	0339	0342	04	Join AD, challenging, interesting work
M9923F	Num	0343	0346	04	Join AD, always wanted to be in military
M9923G	Num	0347	0350	04	Join AD, military tradition in family
M9923H	Num	0351	0354	04	Join AD, parents encouragement
M9923I	Num	0355	0358	04	Join AD, desire to serve your country
M9923J	Num	0359	0362	04	Join AD, image given by mil personnel
M9923K	Num	0363	0366	04	Join AD, few/no civilian job opportunity
M9923L	Num	0367	0370	04	Join AD, pay and allowance(s)
M9923M	Num	0371	0374	04	Join AD, retirement pay and benefits
M9923N	Num	0375	0378	04	Join AD, security and stability of job
M9923O	Num	0379	0382	04	Join AD, oppty to work in specific occup
M9923P	Num	0383	0386	04	Join AD, train in skills for civ occup
M9923Q	Num	0387	0390	04	Join AD, family benefits
M9923R	Num	0391	0394	04	Join AD, travel and new experiences
M9923S	Num	0395	0398	04	Join AD, money for college/educ benefits
M9923T	Num	0399	0402	04	Join AD, personal growth and maturity
M9923U	Num	0403	0406	04	Join AD, other
M9924	Num	0407	0408	02	Most important reason why joined
M9925	Num	0409	0410	02	Next most important reason why joined
M9926	Num	0411	0412	02	First joined, prefer a military occup
M9926SK	Num	0413	0414	02	First joined, prefer a military occup SK
M9927	Num	0415	0416	02	Receive mil occup of choice
M9928	Num	0417	0418	02	Satis w/mil occup received when joined
M9929SK	Num	0419	0420	02	Which term of service now SK
M9931	Num	0421	0422	02	Likely allow to stay in svc-end of oblig
M9932	Num	0423	0424	02	Likely choose to stay on active duty
M9933	Num	0425	0426	02	If stay in mil, when next promotion
M9934	Num	0427	0428	02	Spouse/other want you to stay/leave mil
M9935	Num	0429	0430	02	If stay long as want, choose min 20 yrs
M9937	Num	0431	0432	02	If lv mil next 12 mo, what prim activity
M9938	Num	0433	0434	02	Lv active duty, join nat guard/reserve
M9939A	Num	0435	0436	02	Satis, basic pay
M9939B	Num	0437	0438	02	Satis, special and incentive pay

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
M9939C	Num	0439	0440	02	Satis, reenlist bonus/contin pay program
M9939D	Num	0441	0442	02	Satis, housing allowance
M9939E	Num	0443	0444	02	Satis, SEPRATS/COMRATS, subsist allow
M9939F	Num	0445	0446	02	Satis, military housing
M9939G	Num	0447	0448	02	Satis, medical care for you
M9939H	Num	0449	0450	02	Satis, dental care for you
M9939I	Num	0451	0452	02	Satis, retirement pay you would get
M9939J	Num	0453	0454	02	Satis, COLA to retirement pay
M9939K	Num	0455	0456	02	Satis, other retiremt, medical/base svcs
M9939L	Num	0457	0458	02	Satis, pace of your promotions
M9939M	Num	0459	0460	02	Satis, chances for future advancement
M9939N	Num	0461	0462	02	Satis, training/professional development
M9939O	Num	0463	0464	02	Satis, type of assignments received
M9939P	Num	0465	0466	02	Satis, deployments
M9939Q	Num	0467	0468	02	Satis, other mil duties away fr duty sta
M9939R	Num	0469	0470	02	Satis, avail of equip, parts, resources
M9939S	Num	0471	0472	02	Satis, level of manning in your unit
M9939T	Num	0473	0474	02	Satis, your unit's morale
M9939U	Num	0475	0476	02	Satis, your personal workload
M9939V	Num	0477	0478	02	Satis, amt of personal/fam time you have
M9939W	Num	0479	0480	02	Satis, off duty education opportunities
M9939X	Num	0481	0482	02	Satis, quality of leadership
M9939Y	Num	0483	0484	02	Satis, mil values, lifestyle, tradition
M9939Z	Num	0485	0486	02	Satis, amount of enjoyment from your job
M9939AA	Num	0487	0488	02	Satis, frequency of PCS moves
M9939BB	Num	0489	0490	02	Satis, job security
M9939CC	Num	0491	0492	02	Satis, loc/station of choice/homeporting
M9939DD	Num	0493	0494	02	Satis, co-loc with your military spouse
M9939EE	Num	0495	0496	02	Satis, medical care for your family
M9939FF	Num	0497	0498	02	Satis, dental care for your family
M9939GG	Num	0499	0500	02	Satis, youth activities on base
M9939HH	Num	0501	0502	02	Satis, schools for your children
M9939II	Num	0503	0504	02	Satis, spouse employment/career opportun
M9939JJ	Num	0505	0506	02	Satis, miltary family support programs
M9939KK	Num	0507	0508	02	Satis, acceptable, affordable child care
M9940	Num	0509	0510	02	Most important factor stay active duty
M9941	Num	0511	0512	02	Next most imp factor stay active duty
M9942	Num	0513	0514	02	Most important factor leave active duty
M9943	Num	0515	0516	02	Next most imp factor leave active duty
M9944A	Num	0517	0518	02	Imp comp, job difficulty
M9944B	Num	0519	0520	02	Imp comp, job performance
M9944C	Num	0521	0522	02	Imp comp, danger
M9944D	Num	0523	0524	02	Imp comp, time spent away from home
M9944E	Num	0525	0526	02	Imp comp, number of hours worked
M9944F	Num	0527	0528	02	Imp comp, level of responsibility
M9944G	Num	0529	0530	02	Imp comp, amount of education/training
M9944H	Num	0531	0532	02	Imp comp, years of experience
M9944I	Num	0533	0534	02	Imp comp, amt civil emp pay for this wk

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
M9944J	Num	0535	0536	02	Imp comp, amt needed to provide for fam
M9944K	Num	0537	0538	02	Imp comp, cost of living
M9945A	Num	0539	0540	02	AgrDis past yr mission imp natl interest
M9945B	Num	0541	0542	02	AgrDis past yr duty helped mil readiness
M9945C	Num	0543	0544	02	AgrDis peacekeeping/peacemaking rewardng
M9945D	Num	0545	0546	02	AgrDis overseas humanitarian rewarding
M9945E	Num	0547	0548	02	AgrDis little my expernce trnsfrs to civ
M9945F	Num	0549	0550	02	AgrDis easy for me to get civ job now
M9945G	Num	0551	0552	02	AgrDis good idea of civ jobs I could get
M9945H	Num	0553	0554	02	AgrDis good idea of civ pay I could get
M9945I	Num	0555	0556	02	AgrDis mil benefits have eroded recently
M9945J	Num	0557	0558	02	AgrDis would encourage others join mil
M9946	Num	0559	0560	02	Life better/worse than expected in mil
M9947	Num	0561	0562	02	Work better/worse than expected in mil
M9948A	Num	0563	0566	04	Past 6mo thought seriously of leavng mil
M9948B	Num	0567	0570	04	Past 6mo wondered about civilian life
M9948C	Num	0571	0574	04	Past 6mo discussd leavng w family/friend
M9948D	Num	0575	0578	04	Past 6mo talkd of leavng w immd suprvisr
M9948E	Num	0579	0582	04	Past 6mo gatherd info on educ prgrm/coll
M9948F	Num	0583	0586	04	Past 6mo gatherd info on civ job options
M9948G	Num	0587	0590	04	Past 6mo attended prgrm on civ employmnt
M9948H	Num	0591	0594	04	Past 6mo prepared a resume
M9948I	Num	0595	0598	04	Past 6mo applied for a job
M9948J	Num	0599	0602	04	Past 6mo interviewed for a job
M9948K	Num	0603	0606	04	Past 6mo did not explore leavng military
M9949A	Num	0607	0608	02	Mil/civ opp, promotion opportunities
M9949B	Num	0609	0610	02	Mil/civ opp, amt personal/family time
M9949C	Num	0611	0612	02	Mil/civ opp, hours worked per week
M9949D	Num	0613	0614	02	Mil/civ opp, vacation time
M9949E	Num	0615	0616	02	Mil/civ opp, education/training opps
M9949F	Num	0617	0618	02	Mil/civ opp, total compensation
M9949G	Num	0619	0620	02	Mil/civ opp, health care benefits
M9949H	Num	0621	0622	02	Mil/civ opp, retirement benefits
M9949I	Num	0623	0624	02	Mil/civ opp, sense accomplishment/pride
M9949J	Num	0625	0626	02	Mil/civ opp, general quality of life
M9950A	Num	0627	0628	02	Agr/Dis most my friends in mil community
M9950B	Num	0629	0630	02	Agr/Dis mil community is there for me
M9950C	Num	0631	0632	02	Agr/Dis have lot in common w civ commnty
M9950D	Num	0633	0634	02	Agr/Dis mil community asks me for help
M9950E	Num	0635	0636	02	Agr/Dis live onbase helps make ends meet
M9950F	Num	0637	0638	02	Agr/Dis talk up my Service as great org
M9950G	Num	0639	0640	02	Agr/Dis not much good stick w mil career
M9950H	Num	0641	0642	02	Agr/Dis proud to be member of my Service
M9950I	Num	0643	0644	02	Agr/Dis my values & my Service's similar
M9950J	Num	0645	0646	02	Agr/Dis my Service inspires me to best
M9950K	Num	0647	0648	02	Agr/Dis turn down job w more pay to stay
M9950L	Num	0649	0650	02	Agr/Dis my Service promotes best members
M9950M	Num	0651	0652	02	Agr/Dis wil be promotd accordng t abilty

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
M9951	Num	0653	0654	02	All things consid, how satis w/mil life
MA952A01	Num	0655	0656	02	Base fitness ctr/gym: Avail/Not Avail
MA952A02	Num	0657	0658	02	Base library services : Avail/Not Avail
MA952A03	Num	0659	0660	02	Base outdoor rec areas: Avail/Not Avail
MA952A04	Num	0661	0662	02	Base outdoor rec equip: Avail/Not Avail
MA952A05	Num	0663	0664	02	Base recreation center: Avail/Not Avail
MA952A06	Num	0665	0666	02	Base golf course: Avail/Not Avail
MA952A07	Num	0667	0668	02	Base bowling center: Avail/Not Avail
MA952A08	Num	0669	0670	02	Base rec lodging/hotel: Avail/Not Avail
MA952A09	Num	0671	0672	02	Base clubs/dance/night: Avail/Not Avail
MA952A10	Num	0673	0674	02	Base comm/supermkt: Avail/Not Avail
MA952A11	Num	0675	0676	02	Base main exch/dept st: Avail/Not Avail
MA952A12	Num	0677	0678	02	Base social activities: Avail/Not Avail
MA952A13	Num	0679	0680	02	Base auto/craft/hobby: Avail/Not Avail
MA952B01	Num	0681	0682	02	Civ fitness ctr/gym: Avail/Not Avail
MA952B02	Num	0683	0684	02	Civ library services : Avail/Not Avail
MA952B03	Num	0685	0686	02	Civ outdoor rec areas: Avail/Not Avail
MA952B04	Num	0687	0688	02	Civ outdoor rec equip: Avail/Not Avail
MA952B05	Num	0689	0690	02	Civ recreation center: Avail/Not Avail
MA952B06	Num	0691	0692	02	Civ golf course: Avail/Not Avail
MA952B07	Num	0693	0694	02	Civ bowling center: Avail/Not Avail
MA952B08	Num	0695	0696	02	Civ rec lodging/hotel: Avail/Not Avail
MA952B09	Num	0697	0698	02	Civ clubs/dance/night: Avail/Not Avail
MA952B10	Num	0699	0700	02	Civ comm/supermkt: Avail/Not Avail
MA952B11	Num	0701	0702	02	Civ main exch/dept st: Avail/Not Avail
MA952B12	Num	0703	0704	02	Civ social activities: Avail/Not Avail
MA952B13	Num	0705	0706	02	Civ auto/craft/hobby sh: Avail/Not Avail
MU952A01	Num	0707	0708	02	Avg mo use of onbase fitness center/gym
MU952A02	Num	0709	0710	02	Avg mo use of onbase library service
MU952A03	Num	0711	0712	02	Avg mo use of onbase outdoor rec areas
MU952A04	Num	0713	0714	02	Avg mo use of onbase outdoor rec equip
MU952A05	Num	0715	0716	02	Avg mo use of onbase recreation center
MU952A06	Num	0717	0718	02	Avg mo use of onbase golf courses
MU952A07	Num	0719	0720	02	Avg mo use of onbase bowling center
MU952A08	Num	0721	0722	02	Avg mo use of onbase rec lodging/resort
MU952A09	Num	0723	0724	02	Avg mo use of onbase clubs/danc/nght
MU952A10	Num	0725	0726	02	Avg mo use of onbase commissary/grocery
MU952A11	Num	0727	0728	02	Avg mo use of onbase exchange/dept store
MU952A12	Num	0729	0730	02	Avg mo use of onbase social activities
MU952A13	Num	0731	0732	02	Avg mo use of onbase auto,craft,hobby
MU952B01	Num	0733	0734	02	Av mo use civ offbase fitness center/gym
MU952B02	Num	0735	0736	02	Av mo use civ offbase library service
MU952B03	Num	0737	0738	02	Av mo use civ offbase outdoor rec area
MU952B04	Num	0739	0740	02	Av mo use civ offbase outdoor rec equip
MU952B05	Num	0741	0742	02	Av mo use civ offbase recreation center
MU952B06	Num	0743	0744	02	Av mo use civ offbase golf courses
MU952B07	Num	0745	0746	02	Av mo use civ offbase bowling center
MU952B08	Num	0747	0748	02	Av mo use civ offbase rec lodging/resort

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
MU952B09	Num	0749	0750	02	Av mo use civ offbase club/danc/nght
MU952B10	Num	0751	0752	02	Av mo use civ offbase commissary/grocery
MU952B11	Num	0753	0754	02	Av mo use civ offbase exchange/dept
MU952B12	Num	0755	0756	02	Av mo use civ offbase social activities
MU952B13	Num	0757	0758	02	Av mo use civ offbase auto,crft,hobby
M9953A	Num	0759	0760	02	Use svcs, adult contin educ/counseling
M9953B	Num	0761	0762	02	Use svcs, tuition assist higher educ
M9954SKA	Num	0763	0764	02	What is your marital status SKA
M9954SKB	Num	0765	0766	02	What is your marital status SKB
M9955SP	Num	0767	0768	02	Sp curr other (specify) SP
M9958	Num	0769	0770	02	Have child(ren) or legal dependents
M9958SK	Num	0771	0772	02	Have child(ren) or legal dependents SK
M9962A	Num	0773	0776	04	Not applicable, haven't used any
M9962ASK	Num	0777	0778	02	Not applicable, haven't used any SK
M9962B	Num	0779	0782	04	12 mo care, other parent or stepparent
M9962C	Num	0783	0786	04	12 mo care, brother/sister 15 or older
M9962D	Num	0787	0790	04	12 mo care, brother/sister under age 15
M9962E	Num	0791	0794	04	12 mo care, grandparent
M9962F	Num	0795	0798	04	12 mo care, other relative
M9962G	Num	0799	0802	04	12 mo care, friend or neighbor
M9962H	Num	0803	0806	04	12 mo care, sitter, nanny or au pair
M9962I	Num	0807	0810	04	12 mo care, preschool (on base)
M9962J	Num	0811	0814	04	12 mo care, preschool (off base)
M9962K	Num	0815	0818	04	12 mo care, child devel ctr (on base)
M9962L	Num	0819	0822	04	12 mo care, day care center (off base)
M9962M	Num	0823	0826	04	12 mo care, family care home (on base)
M9962N	Num	0827	0830	04	12 mo care, care prov home (off base)
M9962O	Num	0831	0834	04	12 mo care, schl age care prog (on base)
M9962P	Num	0835	0838	04	12 mo care, after schl prog (off base)
M9962Q	Num	0839	0842	04	12 mo care, fed support Head Start prog
M9962R	Num	0843	0846	04	12 mo care, none of the above
M9963	Num	0847	0848	02	Num child reg used childcare arngmnt
M9964A	Num	0849	0852	04	Total spent, does not apply
M9964ASK	Num	0853	0854	02	Total spent, does not apply SK
M9965	Num	0855	0856	02	Past 12 mo, any change in childcare
M9965SK	Num	0857	0858	02	Past 12 mo, any change in childcare SK
M9966A	Num	0859	0862	04	Reas chng, school start, end, change
M9966B	Num	0863	0866	04	Reas chng, mil assnmt start, end, change
M9966C	Num	0867	0870	04	Reas chng, spouse schl start, end, chng
M9966D	Num	0871	0874	04	Reas chng, cost
M9966E	Num	0875	0878	04	Reas chng, avail/hours of provider
M9966F	Num	0879	0882	04	Reas chng, reliability of provider
M9966G	Num	0883	0886	04	Reas chng, quality of care provided
M9966H	Num	0887	0890	04	Reas chng, provider loc/accessibility
M9966I	Num	0891	0894	04	Reas chng, never had regular arrangement
M9966J	Num	0895	0898	04	Reas chng, child outgrew arrangement
M9966K	Num	0899	0902	04	Reas chng, no longer elig for assistance
M9966L	Num	0903	0906	04	Reas chng, arrangement no longer avail

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
M9966M	Num	0907	0910	04	Reas chng, other (specify)
M9966SP	Num	0911	0912	02	Reas chng, other (specify) SP
M9967	Num	0913	0914	02	Past 12 mo, lost work for childcare chng
M9968	Num	0915	0916	02	Have child enrolled in school
M9968SK	Num	0917	0918	02	Have child enrolled in school SK
M9969SK	Num	0919	0920	02	Type of school youngest child attends SK
M9969SP	Num	0921	0922	02	Type of school other (specify) SP
M9971A	Num	0923	0924	02	Rate schl, overall academic program
M9971B	Num	0925	0926	02	Rate schl, support svcs prov by school
M9971C	Num	0927	0928	02	Rate schl, special education programs
M9971D	Num	0929	0930	02	Rate schl, physical plant (bldgs, etc.)
M9971E	Num	0931	0932	02	Rate schl, avail extracurric activities
M9971F	Num	0933	0934	02	Rate schl, safety of school
M9971G	Num	0935	0936	02	Rate schl, overall quality of school
M9972A	Num	0937	0940	04	Schl act, conference/mtg with teachers
M9972B	Num	0941	0944	04	Schl act, wk w/teacher promote achievemt
M9972C	Num	0945	0948	04	Schl act, collaborate educ opp for all
M9972D	Num	0949	0952	04	Schl act, plan/impl curric/extra activ
M9972E	Num	0953	0956	04	Schl act, prob solv to promote learning
M9972F	Num	0957	0960	04	Schl act, none of the above
M9974	Num	0961	0962	02	Caregiver resp for elderly family member
M9974SK	Num	0963	0964	02	Caregiver resp elderly fam member SK
M9975	Num	0965	0966	02	Num of elderly fam members cared for
M9976	Num	0967	0968	02	Past 12 mo, lose work to eldercare resp
M9977A	Num	0969	0970	02	Sat hlth, out of pocket cost for care
M9977B	Num	0971	0972	02	Sat hlth, skill physicians/other provid
M9977C	Num	0973	0974	02	Sat hlth, availability of specialists
M9977D	Num	0975	0976	02	Sat hlth, ability to get appointments
M9977E	Num	0977	0978	02	Sat hlth, waiting time in the clinic
M9977F	Num	0979	0980	02	Sat hlth, overall quality of care
M9977G	Num	0981	0982	02	Sat hlth, admin req (paperwork, etc.)
M9977H	Num	0983	0984	02	Sat hlth, n/a, not elig mil hlth care
M9977HSK	Num	0985	0986	02	Sat hlth, n/a, not elig mil hlth care SK
M9978	Num	0987	0988	02	Last mo, non-military volunteer work
M9978SK	Num	0989	0990	02	Last mo, non-military volunteer work SK
M9979A	Num	0991	0994	04	No vol, not asked to volunteer
M9979B	Num	0995	0998	04	No vol, did not have time to volunteer
M9979C	Num	0999	1002	04	No vol, no childcare, couldn't volunteer
M9979D	Num	1003	1006	04	No vol, not interested in volunteer work
M9979E	Num	1007	1010	04	No vol, did not have transportation
M9979F	Num	1011	1014	04	No vol, none of the above
M9980	Num	1015	1016	02	General outlook about your life
M9981	Num	1017	1018	02	Accom by family members at perm duty sta
M9981SK	Num	1019	1020	02	Accom by fam mem at perm duty sta SK
M9982A	Num	1021	1024	04	No fam, n/a, I have no family members
M9982SP	Num	1025	1026	02	No fam, other (specify) SP
M9984A	Num	1027	1030	04	Mil rel, parent or guardian
M9984B	Num	1031	1034	04	Mil rel, spouse

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
M9984C	Num	1035	1038	04	Mil rel, brother or sister
M9984E	Num	1039	1042	04	Mil rel, grandparent
M9984F	Num	1043	1046	04	Mil rel, uncle or aunt
M9984G	Num	1047	1050	04	Mil rel, cousin
M9984H	Num	1051	1054	04	Mil rel, other close relative
M9984I	Num	1055	1058	04	Mil rel, no rel served on active duty
M9985	Num	1059	1060	02	Off duty, outside job or own business
M9985SK	Num	1061	1062	02	Off duty, outside job or own business SK
M9987A	Num	1063	1066	04	12 mo income, second job
M9987B	Num	1067	1070	04	12 mo income, alimony
M9987C	Num	1071	1074	04	12 mo income, child support
M9987D	Num	1075	1078	04	12 mo income, Supplemental Social Sec
M9987E	Num	1079	1082	04	12 mo income, unemployment/workers comp
M9987F	Num	1083	1086	04	12 mo income, state paid childcare assis
M9987G	Num	1087	1090	04	12 mo income, WIC
M9987H	Num	1091	1094	04	12 mo income, food stamp program
M9987I	Num	1095	1098	04	12 mo income, Head Start program
M9987J	Num	1099	1102	04	12 mo income, AFDC
M9987K	Num	1103	1106	04	12 mo income, Medicaid
M9987L	Num	1107	1110	04	12 mo income, other (specify)
M9987SP	Num	1111	1112	02	12 mo income, other (specify) SP
M9988	Num	1113	1114	02	Total mo gross income from all sources
M9989	Num	1115	1116	02	Amount of savings, member and spouse
M9990	Num	1117	1118	02	You or spouse pay child support
M9991	Num	1119	1120	02	Total last mo for rent or mortgage
M9992	Num	1121	1122	02	Total last mo loans/leases on vehicles
M9993	Num	1123	1124	02	Total paymt last mo unsecured prsnl debt
M9994	Num	1125	1126	02	Total amt still owed unsec personal debt
M9995	Num	1127	1128	02	Best describe financial sit you & spouse
M9996A	Num	1129	1132	04	12 mo event, bounced 2 or more checks
M9996B	Num	1133	1136	04	12 mo event, late pay ltr commnd officer
M9996C	Num	1137	1140	04	12 mo event, had wages garnished
M9996D	Num	1141	1144	04	12 mo event, behind on rent or mortgage
M9996E	Num	1145	1148	04	12 mo event, behind cr cd, AAFES, NEXCOM
M9996F	Num	1149	1152	04	12 mo event, pressurd by stores,creditrs
M9996G	Num	1153	1156	04	12 mo event, bill coll called unit leadr
M9996H	Num	1157	1160	04	12 mo event, pawned/sold valuables
M9996I	Num	1161	1164	04	12 mo event, borrow from friend/relative
M9996J	Num	1165	1168	04	12 mo event, Emer Loan, Service Aid Soc
M9996K	Num	1169	1172	04	12 mo event, utilities shut off
M9996L	Num	1173	1176	04	12 mo event, car, appl, furn repossessed
M9996M	Num	1177	1180	04	12 mo event, could not afford med care
M9996N	Num	1181	1184	04	12 mo event, went bankrupt
M9996O	Num	1185	1188	04	12 mo event, none of the above
M9997A	Num	1189	1190	02	TSP avail, if no government matching
M9997B	Num	1191	1192	02	TSP avail, if govt match up to 5%
M9997C	Num	1193	1194	02	TSP avail, invest bonus tax deferred
M9998	Num	1195	1196	02	Main concern about mil retirement system

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
M9999	Num	1197	1198	02	Stay in mil if elig for pension in 10 yr
M99100	Num	1199	1200	02	Stay in mil if retire pay formula change
SRESL	Num	1201	1202	02	Is English a second language for you
M99107SK	Num	1203	1204	02	Curr act duty and/or guard/reserve SK
SRDATE	Num	1205	1212	08	Date survey completed
COMMENT	Num	1213	1214	02	Please write in comments/concerns
DMDC_ID	Char	1215	1220	06	Unique Identifier Number for Member
AD1CL	Num	1221	1228	08	Non-Response Adjust Cell
AD1F0	Num	1229	1236	08	FS Unk Elig NonRespons Adj Factor
AD1W0	Num	1237	1244	08	FS Unk Elig NonResonse Adj Weight
AD2F0	Num	1245	1252	08	FS Elig NonRespondent Adj Factor
AD2W0	Num	1253	1260	08	FS Elig NonRespondent Adj Weight
BSWGT0	Num	1261	1268	08	Form A Base Weight
ELIGFLGW	Num	1269	1270	02	Eligibility Flag 1:EL6 2:JN
POPTVSTR	Num	1271	1278	08	Taylor Series Variance Strata Population
PSTSTR	Num	1279	1286	08	Final Postratification Cell
PSW0	Num	1287	1294	08	Final Postratified Weight
PSW1	Num	1295	1302	08	Final Postratif Weight for Replicate 1
PSW10	Num	1303	1310	08	Final Postratif Weight for Replicate 10
PSW100	Num	1311	1318	08	Final Postratif Weight for Replicate 100
PSW101	Num	1319	1326	08	Final Postratif Weight for Replicate 101
PSW102	Num	1327	1334	08	Final Postratif Weight for Replicate 102
PSW103	Num	1335	1342	08	Final Postratif Weight for Replicate 103
PSW104	Num	1343	1350	08	Final Postratif Weight for Replicate 104
PSW105	Num	1351	1358	08	Final Postratif Weight for Replicate 105
PSW106	Num	1359	1366	08	Final Postratif Weight for Replicate 106
PSW107	Num	1367	1374	08	Final Postratif Weight for Replicate 107
PSW108	Num	1375	1382	08	Final Postratif Weight for Replicate 108
PSW109	Num	1383	1390	08	Final Postratif Weight for Replicate 109
PSW11	Num	1391	1398	08	Final Postratif Weight for Replicate 11
PSW110	Num	1399	1406	08	Final Postratif Weight for Replicate 110
PSW111	Num	1407	1414	08	Final Postratif Weight for Replicate 111
PSW112	Num	1415	1422	08	Final Postratif Weight for Replicate 112
PSW113	Num	1423	1430	08	Final Postratif Weight for Replicate 113
PSW114	Num	1431	1438	08	Final Postratif Weight for Replicate 114
PSW115	Num	1439	1446	08	Final Postratif Weight for Replicate 115
PSW116	Num	1447	1454	08	Final Postratif Weight for Replicate 116
PSW117	Num	1455	1462	08	Final Postratif Weight for Replicate 117
PSW118	Num	1463	1470	08	Final Postratif Weight for Replicate 118
PSW119	Num	1471	1478	08	Final Postratif Weight for Replicate 119
PSW12	Num	1479	1486	08	Final Postratif Weight for Replicate 12
PSW120	Num	1487	1494	08	Final Postratif Weight for Replicate 120
PSW121	Num	1495	1502	08	Final Postratif Weight for Replicate 121
PSW122	Num	1503	1510	08	Final Postratif Weight for Replicate 122
PSW123	Num	1511	1518	08	Final Postratif Weight for Replicate 123
PSW124	Num	1519	1526	08	Final Postratif Weight for Replicate 124
PSW125	Num	1527	1534	08	Final Postratif Weight for Replicate 125
PSW126	Num	1535	1542	08	Final Postratif Weight for Replicate 126

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
PSW127	Num	1543	1550	08	Final Postratif Weight for Replicate 127
PSW128	Num	1551	1558	08	Final Postratif Weight for Replicate 128
PSW129	Num	1559	1566	08	Final Postratif Weight for Replicate 129
PSW13	Num	1567	1574	08	Final Postratif Weight for Replicate 13
PSW130	Num	1575	1582	08	Final Postratif Weight for Replicate 130
PSW131	Num	1583	1590	08	Final Postratif Weight for Replicate 131
PSW132	Num	1591	1598	08	Final Postratif Weight for Replicate 132
PSW133	Num	1599	1606	08	Final Postratif Weight for Replicate 133
PSW134	Num	1607	1614	08	Final Postratif Weight for Replicate 134
PSW135	Num	1615	1622	08	Final Postratif Weight for Replicate 135
PSW136	Num	1623	1630	08	Final Postratif Weight for Replicate 136
PSW137	Num	1631	1638	08	Final Postratif Weight for Replicate 137
PSW138	Num	1639	1646	08	Final Postratif Weight for Replicate 138
PSW139	Num	1647	1654	08	Final Postratif Weight for Replicate 139
PSW14	Num	1655	1662	08	Final Postratif Weight for Replicate 14
PSW140	Num	1663	1670	08	Final Postratif Weight for Replicate 140
PSW141	Num	1671	1678	08	Final Postratif Weight for Replicate 141
PSW142	Num	1679	1686	08	Final Postratif Weight for Replicate 142
PSW143	Num	1687	1694	08	Final Postratif Weight for Replicate 143
PSW144	Num	1695	1702	08	Final Postratif Weight for Replicate 144
PSW145	Num	1703	1710	08	Final Postratif Weight for Replicate 145
PSW146	Num	1711	1718	08	Final Postratif Weight for Replicate 146
PSW147	Num	1719	1726	08	Final Postratif Weight for Replicate 147
PSW148	Num	1727	1734	08	Final Postratif Weight for Replicate 148
PSW149	Num	1735	1742	08	Final Postratif Weight for Replicate 149
PSW15	Num	1743	1750	08	Final Postratif Weight for Replicate 15
PSW150	Num	1751	1758	08	Final Postratif Weight for Replicate 150
PSW151	Num	1759	1766	08	Final Postratif Weight for Replicate 151
PSW152	Num	1767	1774	08	Final Postratif Weight for Replicate 152
PSW153	Num	1775	1782	08	Final Postratif Weight for Replicate 153
PSW154	Num	1783	1790	08	Final Postratif Weight for Replicate 154
PSW155	Num	1791	1798	08	Final Postratif Weight for Replicate 155
PSW156	Num	1799	1806	08	Final Postratif Weight for Replicate 156
PSW157	Num	1807	1814	08	Final Postratif Weight for Replicate 157
PSW158	Num	1815	1822	08	Final Postratif Weight for Replicate 158
PSW159	Num	1823	1830	08	Final Postratif Weight for Replicate 159
PSW16	Num	1831	1838	08	Final Postratif Weight for Replicate 16
PSW160	Num	1839	1846	08	Final Postratif Weight for Replicate 160
PSW161	Num	1847	1854	08	Final Postratif Weight for Replicate 161
PSW162	Num	1855	1862	08	Final Postratif Weight for Replicate 162
PSW163	Num	1863	1870	08	Final Postratif Weight for Replicate 163
PSW164	Num	1871	1878	08	Final Postratif Weight for Replicate 164
PSW165	Num	1879	1886	08	Final Postratif Weight for Replicate 165
PSW166	Num	1887	1894	08	Final Postratif Weight for Replicate 166
PSW167	Num	1895	1902	08	Final Postratif Weight for Replicate 167
PSW168	Num	1903	1910	08	Final Postratif Weight for Replicate 168
PSW169	Num	1911	1918	08	Final Postratif Weight for Replicate 169
PSW17	Num	1919	1926	08	Final Postratif Weight for Replicate 17

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
PSW170	Num	1927	1934	08	Final Postratif Weight for Replicate 170
PSW18	Num	1935	1942	08	Final Postratif Weight for Replicate 18
PSW19	Num	1943	1950	08	Final Postratif Weight for Replicate 19
PSW2	Num	1951	1958	08	Final Postratif Weight for Replicate 2
PSW20	Num	1959	1966	08	Final Postratif Weight for Replicate 20
PSW21	Num	1967	1974	08	Final Postratif Weight for Replicate 21
PSW22	Num	1975	1982	08	Final Postratif Weight for Replicate 22
PSW23	Num	1983	1990	08	Final Postratif Weight for Replicate 23
PSW24	Num	1991	1998	08	Final Postratif Weight for Replicate 24
PSW25	Num	1999	2006	08	Final Postratif Weight for Replicate 25
PSW26	Num	2007	2014	08	Final Postratif Weight for Replicate 26
PSW27	Num	2015	2022	08	Final Postratif Weight for Replicate 27
PSW28	Num	2023	2030	08	Final Postratif Weight for Replicate 28
PSW29	Num	2031	2038	08	Final Postratif Weight for Replicate 29
PSW3	Num	2039	2046	08	Final Postratif Weight for Replicate 3
PSW30	Num	2047	2054	08	Final Postratif Weight for Replicate 30
PSW31	Num	2055	2062	08	Final Postratif Weight for Replicate 31
PSW32	Num	2063	2070	08	Final Postratif Weight for Replicate 32
PSW33	Num	2071	2078	08	Final Postratif Weight for Replicate 33
PSW34	Num	2079	2086	08	Final Postratif Weight for Replicate 34
PSW35	Num	2087	2094	08	Final Postratif Weight for Replicate 35
PSW36	Num	2095	2102	08	Final Postratif Weight for Replicate 36
PSW37	Num	2103	2110	08	Final Postratif Weight for Replicate 37
PSW38	Num	2111	2118	08	Final Postratif Weight for Replicate 38
PSW39	Num	2119	2126	08	Final Postratif Weight for Replicate 39
PSW4	Num	2127	2134	08	Final Postratif Weight for Replicate 4
PSW40	Num	2135	2142	08	Final Postratif Weight for Replicate 40
PSW41	Num	2143	2150	08	Final Postratif Weight for Replicate 41
PSW42	Num	2151	2158	08	Final Postratif Weight for Replicate 42
PSW43	Num	2159	2166	08	Final Postratif Weight for Replicate 43
PSW44	Num	2167	2174	08	Final Postratif Weight for Replicate 44
PSW45	Num	2175	2182	08	Final Postratif Weight for Replicate 45
PSW46	Num	2183	2190	08	Final Postratif Weight for Replicate 46
PSW47	Num	2191	2198	08	Final Postratif Weight for Replicate 47
PSW48	Num	2199	2206	08	Final Postratif Weight for Replicate 48
PSW49	Num	2207	2214	08	Final Postratif Weight for Replicate 49
PSW5	Num	2215	2222	08	Final Postratif Weight for Replicate 5
PSW50	Num	2223	2230	08	Final Postratif Weight for Replicate 50
PSW51	Num	2231	2238	08	Final Postratif Weight for Replicate 51
PSW52	Num	2239	2246	08	Final Postratif Weight for Replicate 52
PSW53	Num	2247	2254	08	Final Postratif Weight for Replicate 53
PSW54	Num	2255	2262	08	Final Postratif Weight for Replicate 54
PSW55	Num	2263	2270	08	Final Postratif Weight for Replicate 55
PSW56	Num	2271	2278	08	Final Postratif Weight for Replicate 56
PSW57	Num	2279	2286	08	Final Postratif Weight for Replicate 57
PSW58	Num	2287	2294	08	Final Postratif Weight for Replicate 58
PSW59	Num	2295	2302	08	Final Postratif Weight for Replicate 59
PSW6	Num	2303	2310	08	Final Postratif Weight for Replicate 6

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
PSW60	Num	2311	2318	08	Final Postratif Weight for Replicate 60
PSW61	Num	2319	2326	08	Final Postratif Weight for Replicate 61
PSW62	Num	2327	2334	08	Final Postratif Weight for Replicate 62
PSW63	Num	2335	2342	08	Final Postratif Weight for Replicate 63
PSW64	Num	2343	2350	08	Final Postratif Weight for Replicate 64
PSW65	Num	2351	2358	08	Final Postratif Weight for Replicate 65
PSW66	Num	2359	2366	08	Final Postratif Weight for Replicate 66
PSW67	Num	2367	2374	08	Final Postratif Weight for Replicate 67
PSW68	Num	2375	2382	08	Final Postratif Weight for Replicate 68
PSW69	Num	2383	2390	08	Final Postratif Weight for Replicate 69
PSW7	Num	2391	2398	08	Final Postratif Weight for Replicate 7
PSW70	Num	2399	2406	08	Final Postratif Weight for Replicate 70
PSW71	Num	2407	2414	08	Final Postratif Weight for Replicate 71
PSW72	Num	2415	2422	08	Final Postratif Weight for Replicate 72
PSW73	Num	2423	2430	08	Final Postratif Weight for Replicate 73
PSW74	Num	2431	2438	08	Final Postratif Weight for Replicate 74
PSW75	Num	2439	2446	08	Final Postratif Weight for Replicate 75
PSW76	Num	2447	2454	08	Final Postratif Weight for Replicate 76
PSW77	Num	2455	2462	08	Final Postratif Weight for Replicate 77
PSW78	Num	2463	2470	08	Final Postratif Weight for Replicate 78
PSW79	Num	2471	2478	08	Final Postratif Weight for Replicate 79
PSW8	Num	2479	2486	08	Final Postratif Weight for Replicate 8
PSW80	Num	2487	2494	08	Final Postratif Weight for Replicate 80
PSW81	Num	2495	2502	08	Final Postratif Weight for Replicate 81
PSW82	Num	2503	2510	08	Final Postratif Weight for Replicate 82
PSW83	Num	2511	2518	08	Final Postratif Weight for Replicate 83
PSW84	Num	2519	2526	08	Final Postratif Weight for Replicate 84
PSW85	Num	2527	2534	08	Final Postratif Weight for Replicate 85
PSW86	Num	2535	2542	08	Final Postratif Weight for Replicate 86
PSW87	Num	2543	2550	08	Final Postratif Weight for Replicate 87
PSW88	Num	2551	2558	08	Final Postratif Weight for Replicate 88
PSW89	Num	2559	2566	08	Final Postratif Weight for Replicate 89
PSW9	Num	2567	2574	08	Final Postratif Weight for Replicate 9
PSW90	Num	2575	2582	08	Final Postratif Weight for Replicate 90
PSW91	Num	2583	2590	08	Final Postratif Weight for Replicate 91
PSW92	Num	2591	2598	08	Final Postratif Weight for Replicate 92
PSW93	Num	2599	2606	08	Final Postratif Weight for Replicate 93
PSW94	Num	2607	2614	08	Final Postratif Weight for Replicate 94
PSW95	Num	2615	2622	08	Final Postratif Weight for Replicate 95
PSW96	Num	2623	2630	08	Final Postratif Weight for Replicate 96
PSW97	Num	2631	2638	08	Final Postratif Weight for Replicate 97
PSW98	Num	2639	2646	08	Final Postratif Weight for Replicate 98
PSW99	Num	2647	2654	08	Final Postratif Weight for Replicate 99
SMPTVSTR	Num	2655	2662	08	Taylors series achieved smp size in var
TVSTR	Num	2663	2670	08	Taylors series varaiance strata
TVUNIT	Num	2671	2678	08	Taylor Series Variance Unit
RM9904	Num	2679	2680	02	Rec currently assigned ship or shore
XMIMPL	Num	2681	2682	02	Constructed Duty Location

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
RM9907	Num	2683	2684	02	Rec where currently deployed
RM9916A	Num	2685	2686	02	Rec 12 mo away, peacekp/conting
RM9916B	Num	2687	2688	02	Rec 12 mo away, foreign hum assist
RM9916C	Num	2689	2690	02	Rec 12 mo away, unit/combat trng
RM9916D	Num	2691	2692	02	Rec 12 mo away, counter drug op
RM9916E	Num	2693	2694	02	Rec 12 mo away, domestic disaster
RM9916F	Num	2695	2696	02	Rec 12 mo away, sched sea deploy
RM9916G	Num	2697	2698	02	Rec 12 mo away, other sea time
RM9916H	Num	2699	2700	02	Rec 12 mo away, joint trng/field
RM9916I	Num	2701	2702	02	Rec 12 mo away, military educ
RM9916J	Num	2703	2704	02	Rec 12 mo away, other TADs/TDYs
RM9917	Num	2705	2706	02	Rec total time away for mil duty
RM9929	Num	2707	2708	02	Rec term of service
RM9930	Num	2709	2710	02	Rec time remaining in curr term/oblig
RM9936	Num	2711	2712	02	Rec total expected years of service
RM9953C	Num	2713	2714	02	Rec use svcs, tech/vocational programs
RM9953D	Num	2715	2716	02	Rec use svcs, basic skills education
XMIMPM	Num	2717	2718	02	Constructed Marital Status
RM955ABC	Num	2719	2720	02	Rec Sp curr actv duty/Nat'l G/Res/othr
RM955DFH	Num	2721	2722	02	Rec Sp curr Fed Civ job/Civ job on base
RM955EGI	Num	2723	2724	02	Rec Sp curr Fed Civ/Civ job/offbase PT
RM955JK	Num	2725	2726	02	Rec Sp curr family busines or self-emp
RM955L	Num	2727	2728	02	Rec Sp curr unemployed, looking for work
RM955M	Num	2729	2730	02	Rec Sp curr in school
RM955N	Num	2731	2732	02	Rec Sp curr homemaker/housewife/hshusbnd
RM955O	Num	2733	2734	02	Rec Sp curr retired
RM955P	Num	2735	2736	02	Rec Sp curr other (specify)
RPREDHI	Num	2737	2738	02	Rec spouse highest education
RM9957	Num	2739	2740	02	Rec how many times divorced
RM9959A	Num	2741	2742	02	Rec number children under 1 year
RM9959B	Num	2743	2744	02	Rec number children 1-2 years
RM9959C	Num	2745	2746	02	Rec number children 2-5 years
RM9959D	Num	2747	2748	02	Rec number children 6-13 years
RM9959E	Num	2749	2750	02	Rec number children 14-22 years
RM9959FG	Num	2751	2752	02	Rec number children 23 years +
RM9960A	Num	2753	2754	02	Rec children/home, under 1 year
RM9960B	Num	2755	2756	02	Rec children/home, 1-2 years
RM9960C	Num	2757	2758	02	Rec children/home, 2-5 years
RM9960D	Num	2759	2760	02	Rec children/home, 6-13 years
RM9960E	Num	2761	2762	02	Rec children/home, 14-22 years
RM9960FG	Num	2763	2764	02	Rec children/home, 23 years +
RM9961AC	Num	2765	2766	02	Rec children/away, up to 5 years
RM9961D	Num	2767	2768	02	Rec children/away, 6-13 years
RM9961E	Num	2769	2770	02	Rec children/away, 14-22 years
RM9961FG	Num	2771	2772	02	Rec children/away, 23 years +
RM9964B	Num	2773	2776	04	Rec monthly childcare expense
RM9969	Num	2777	2778	02	Rec type of school youngest child
RM9970	Num	2779	2780	02	Rec hrs/week

Flat File (OS) Layout for the Public-release File

VARIABLE	TYPE	START	STOP	LENGTH	LABEL
RM9973	Num	2781	2782	02	Rec chil/sp/legal dep in EFMP/CG Sp Nds
RM9982B	Num	2783	2784	02	Rec no fam, legal separation or divorce
RM9982CF	Num	2785	2786	02	Rec temp/perm unaccompanied
RM9982GL	Num	2787	2788	02	Rec unaccompanied due to sp/ch
RM9983	Num	2789	2790	02	Rec number of times family moved
RM9984D	Num	2791	2792	02	Rec mil rel, son or daughter
RM9986	Num	2793	2794	02	Rec hrs/wk civ job/own bus
XMIMPX	Num	2795	2796	02	Constructed Gender
R2XRETH1	Num	2797	2798	02	Race/Ethnicity 1997 OMB Standards: 5 lev
RM9105HI	Num	2799	2800	02	Rec highest educ at time of AD
RSREDHI	Num	2801	2802	02	Rec member highest education
RM99107	Num	2803	2804	02	Rec curr on act duty/guard/reserve
XMIMPS	Num	2805	2806	02	Constructed Service Component
XMIMPP	Num	2807	2808	02	Constructed Paygrade
XMIMPPC	Num	2809	2810	02	Recoded Constructed Paygrade
RM99110	Num	2811	2812	02	Rec number yrs AD service
CREGINS	Num	2813	2814	02	Constructed location group/regions
FCODE	Char	2815	2815	01	Form Code
FILEFLG	Char	2816	2816	01	File Flag Active/Reservist
JOINT	Num	2817	2818	02	Constructed marital status/joint svc mrg
OCCAREA	Char	2819	2820	02	Constructed Occupation Area
RAGE_M	Num	2821	2822	02	Recode:Sample member's age as of 5/31/99

Appendix I

Notes on Analysis of the 1999 Dataset

Notes on Analysis of the 1999 Survey of Active Duty Personnel Dataset

This section is focused on the analytic variables contained on the survey analysis files that were used by Helba et al. (2001) and Gaines, Deak, Helba, and Wright (2000a, 2000b) in reporting the results of the survey. The section describes basic crossing variables that were constructed, the race/ethnicity variables based on OMB guidelines, and variables constructed for sample design.

Analytic Variables

The most important variables constructed for analyses have been preserved on the survey analysis files. Where possible these variables are on the public-release file. In every case where a crossing of demographic variables would allow the isolation of one or two respondents, however, either a variable was collapsed into broader categories or some variable was set to missing in the public-release variables in order to preserve respondents' confidentiality.

Key Demographic Variables

Demographic data are obtained both from respondents' self-reports on the questionnaire and from the ADMF and RCCPDS for Active Duty and AGR/TAR personnel, respectively. Self-reported race/ethnicity, gender, Service, paygrade, and location were used when available in the analyses reported by Helba et al. (2001). Where self-reported data were missing, values were imputed through the use of master file data extracted from the May 1999 ADMF for active-duty personnel and from the May 1999 RCCPDS for AGR/TAR personnel. These imputed variables are referred to as X (crossing) variables. The only variables that were imputed are those crucial to the tabulation of data. Figure I.1 provides SAS code for the imputation and creation of the DMDC standard for reporting Federal data on race and ethnicity. Figures I.2 – I.7 contain either the SAS code or pseudo code of the crossing variables for location, Service, gender, paygrade and marital status. Code is also provided for the five- and seven-category race and ethnicity variables and the seven-category paygrade variable.

Race and Ethnicity. XRETH1 implements the U.S. Office of Management and Budget Bulletin 00-02 (2000) standards for reporting Federal data on race and ethnicity. XRETH1 groups the responses to SRRACEA-SRRACEF into racial/ethnic categories, which include multi-racial combinations. The categories are broken down by whether or not the respondent indicates Hispanic descent (from variable SRHISP). Each description in the "RACIAL CATEGORY" column of the chart below is preceded by an H for "Hispanic" if the respondent has a value greater than or equal of 2 for SRHISP, and by a NH for "Non-Hispanic" if SRHISP has the value of 1. The columns to the right of the descriptions show the Hispanic and race/ethnicity codes matching each description. The coding for XRETH1 follows the coding provided in the chart. For example, Hispanic single-race respondents who mark only one of SRRACEA-SRRACEF are assigned the corresponding code (1 to 6) from the racial/ethnic categories. Hispanics selecting more than one race are coded 7. The categories for Non-Hispanics are similar, except that some specific racial combinations form their own categories (codes 15-18). The remaining racial combinations reported by Non-Hispanics are coded 19.

This variable was imputed using values RETH and RACECAT from either the DMDC ADMF (for active-duty members) or the DMDC RCCPDS (for Reserve members).
The variables R1XRETH1 and R2XRETH1 collapse XRETH1 into seven or five categories, respectively.

CODE	RACIAL CATEGORY (XRETH1)	SR-HISP	SR-RACEA	SR-RACEB	SR-RACEC	SR-RACED	SR-RACEE	SR-RACEF
1	H American Indian or Alaska Native	>=2	1	1	2	1	1	1
2	H Asian	>=2	1	1	1	2	1	1
3	H Black or African American	>=2	1	2	1	1	1	1
4	H Native Hawaiian or Other Pacific Islander	>=2	1	1	1	1	2	1
5	H White	>=2	2	1	1	1	1	1
6	H Some other race	>=2	1	1	1	1	1	2
7	Hispanic/Latino reporting more than one race	>=2	(Any combination of more than one 2 in SRRACEA-F)					
8	H Unknown race	>=2	-9	-9	-9	-9	-9	-9
9	NH American Indian or Alaska Native	1	1	1	2	1	1	1
10	NH Asian	1	1	1	1	2	1	1
11	NH Black or African American	1	1	2	1	1	1	1
12	NH Native Hawaiian or Other Pacific Islander	1	1	1	1	1	2	1
13	NH White	1	2	1	1	1	1	1
14	NH Some other race	1	1	1	1	1	1	2
15	NH American Indian or Alaska Native & White	1	2	1	2	1	1	1
16	NH Asian & White	1	2	1	1	2	1	1
17	NH Black or African American & White	1	2	2	1	1	1	1
18	NH American Indian or Alaska Native & Black or African American	1	1	2	2	1	1	1
19	NH Balance of individuals reporting more than one race	1	(Any other combination of more than one 2 in SRRACEA-F)					

Figure I.1.
SAS Code for Race/Ethnicity

```
*Recodes RCCPDS to ADMF ;
if FILEFLG  = 'V' then do;
if RACECAT GE 4 then RACECAT = 3 ;
if ETH = 21 or ETH = 0 then ETH = 20 ;
end ;

*create variables for comparison of imputing or not imputing ;

* create basic non-imputed self-report of ethnicity ;
HISP_NI = . ;
        if SRHISP=1 then HISP_NI=1;  /*1=Non-hispanic*/
        if SRHISP GE 2 then HISP_NI=2;        /*2=Hispanic*/
Label HISP_NI = Hispanic ethnicity, no imputation;

*Imputations from records for Hispanic ethnicity non-response ;
HISP_IM = HISP_NI ;
Label HISP_IM = Hispanic ethnicity, imputation for survey missing ;

if HISP_NI NE . then HispImpF = 1 ;
label HispImpF = flag Hispanic ethnicity imputed from record data ;
if HISP_IM = . then do ;
        if reth in (1, 2, 4, 5) then HISP_IM = 1 ;
        if reth =   3         then HISP_IM = 2 ;
        if reth in (1, 2, 3, 4, 5) then HispImpF = 2 ;
        if HISP_IM =.  and eth in (1, 2, 3, 4, 5) then do ;
        HISP_IM = 2 ;
        HispImpF = 2 ;
        end ;
end ;

* Create non-imputed self-report of race with Other valid;
R_OV_NI = 100000*SRRACEf
            + 10000*SRRACEa
            + 1000*SRRACEb
            + 100*SRRACEc
            + 10*SRRACEd
            + 1*SRRACEe;
if SRRACEa lt 1 then R_OV_NI = . ;
Label R_OV_NI = Race - Other Valid - No Imputations ;
```

Figure I. 1. (continued)
SAS Code for Race/Ethnicity

```
*Create non-imputed self-report of ethnicity race with Other valid;
E_OV_NI = 1000000*HISP_NI
            + 100000*SRRACEf
            + 10000*SRRACEa
            + 1000*SRRACEb
            + 100*SRRACEc
            + 10*SRRACEd
            + 1*SRRACEe;
if SRRACEa lt 1 or HISP_NI = . then E_OV_NI = . ;
Label E_OV_NI = Ethnic Race - Other Valid - No Imputations ;

*Imputations from records for non-response on race self-report with Other valid;
* imputations to use in constructing imputed race ;
  array notimpt1   SRHISP  SRRACEa  SRRACEb  SRRACEc
                   SRRACEd  SRRACEe  SRRACEf ;
  array impt1     iSRHISP iSRRACEa iSRRACEb iSRRACEc
                  iSRRACEd iSRRACEe iSRRACEf ;
  Do over impt1 ;
   impt1 = notimpt1 ;
  end ;

* Imputations for Missings with Other Valid ;
if R_OV_NI NE . then OV_IMFlg = 1 ;
label OV_IMFlg = Other Valid - Imputed 4 Missing - Flag ;
if R_OV_NI = . then do ;
 if racecat =   1    then iSRRACEa = 2 ;
 if racecat =   1    then OV_IMFlg = 2 ;
 if racecat =   2    then iSRRACEb = 2 ;
 if racecat =   2    then OV_IMFlg = 2 ;
 if reth    =   4    then iSRRACEc = 2 ;
 if reth    =   4    then OV_IMFlg = 2 ;
 if reth    =   6    then iSRRACEf = 2 ;
 if reth    =   6    then OV_IMFlg = 2 ;
 if eth     in (6 7 8) then iSRRACEc = 2 ;
 if eth     in (6 7 8) then OV_IMFlg = 2 ;
 if eth     in (9 10 11 12 13 14 15) then iSRRACEd = 2 ;
 if eth     in (9 10 11 12 13 14 15) then OV_IMFlg = 2 ;
 if eth     in (16 17 18 19 22) then iSRRACEe = 2 ;
 if eth     in (16 17 18 19 22) then OV_IMFlg = 2 ;
 if OV_IMFlg = 2 and iSRRACEa lt 1 then iSRRACEa = 1 ;
 if OV_IMFlg = 2 and iSRRACEb lt 1 then iSRRACEb = 1 ;
 if OV_IMFlg = 2 and iSRRACEc lt 1 then iSRRACEc = 1 ;
 if OV_IMFlg = 2 and iSRRACEd lt 1 then iSRRACEd = 1 ;
 if OV_IMFlg = 2 and iSRRACEe lt 1 then iSRRACEe = 1 ;
 if OV_IMFlg = 2 and iSRRACEf lt 1 then iSRRACEf = 1 ;
end;
```

Figure I. 1. (continued)
SAS Code for Race/Ethnicity

```
* Impute Missing Ethnicity Race with Other Valid in E_OV_IM ;
E_OV_IM = 1000000*HISP_IM
          + 100000*iSRRACEf
          + 10000*iSRRACEa
          + 1000*iSRRACEb
          + 100*iSRRACEc
          + 10*iSRRACEd
          + 1*iSRRACEe;
     if iSRRACEa lt 1 or HISP_IM = . then E_OV_IM = . ;
Label E_OV_IM = Ethnic Race - Other Valid - Impute 4 Missing ;

* creation of reporting variable for race - OMB guidance of 9 March 00 ;

if E_OV_IM > 1000000 AND E_OV_IM =< 1222222 then XRETH1 = 19;
                                    * NH Balance of individuals reporting more than one race ;
if E_OV_IM = 1111211 then XRETH1 =  9; * NH American Indian or Alaska Native ;
if E_OV_IM = 1111121 then XRETH1 = 10; * NH Asian ;
if E_OV_IM = 1112111 then XRETH1 = 11; * NH Black or African American ;
if E_OV_IM = 1111112 then XRETH1 = 12; * NH Native Hawaiian or Other Pacific Islander ;
if E_OV_IM = 1121111 then XRETH1 = 13; * NH White ;
if E_OV_IM = 1121211 then XRETH1 = 15; * NH American Indian or Alaska Native & White ;
if E_OV_IM = 1121121 then XRETH1 = 16; * NH Asian & White ;
if E_OV_IM = 1122111 then XRETH1 = 17; * NH Black or African American & White ;
if E_OV_IM = 1112211 then XRETH1 = 18;
                            * NH American Indian or Alaska Native & Black or African American ;
if E_OV_IM = 1211111 then XRETH1 = 14; * NH Other Race alone ;
if HISP_IM = 2       then XRETH1 = 7; * Hispanic/Latino reporting > 1;
if HISP_IM = 2 and iSRRACEa lt 1 then XRETH1 = 8; * Hispanic/Latino unknown race ;
if E_OV_IM = 2111211 then XRETH1 =  1;  * H American Indian or Alaska Native ;
if E_OV_IM = 2111121 then XRETH1 =  2;  * H Asian ;
if E_OV_IM = 2112111 then XRETH1 =  3;  * H Black or African American ;
if E_OV_IM = 2111112 then XRETH1 =  4;  * H Native Hawaiian or Other Pacific Islander ;
if E_OV_IM = 2121111 then XRETH1 =  5;  * H White ;
if E_OV_IM = 2211111 then XRETH1 =  6; * H Other Race alone ;
Label XRETH1 = Ethnic Race - Other Valid - Impute 4 Missing ;

If 1 <= xreth1 <= 8 then R2XRETH1=1;              * Hispanic;
    else if xreth1 = 13 then R2XRETH1=2;          * NH White;
    else if xreth1 = 11 then R2XRETH1=3; * NH Black or African American;
    else if xreth1 in (9,10,12,14) then R2XRETH1=4; *NH All Other Race alone ;
    else if 15 <= xreth1 <= 19 then R2XRETH1=5; *NH Reporting > One Race;
```

Figure I.1. (continued)
SAS Code for Race/Ethnicity

```
If 1 <= xreth1 <= 8 then R1XRETH1 = 3;                          /**Hispanic**/
   else if xreth1 = 9 then R1XRETH1 = 4;                  /**American Indian/Alaskan Native**/
        else if xreth1 in (10, 12) then R1XRETH1 = 5;   /**Asian/Pacific Islander**/
        else if xreth1 = 11 then R1XRETH1 = 2;                  /**Black**/
        else if xreth1 = 13 then R1XRETH1 = 1;                  /**White**/
        else if xreth1 = 14 then R1XRETH1 = 6;                  /**Other**/
        else if 15 <= xreth1 <= 19 then R1XRETH1 = 7;/          **More than one race marked**/

 label
   XRETH1    = "Race/Ethnicity 1997 OMB Stndrd:19 levels";
   R1XRETH1  = "Race/Ethnicity 1997 OMB Stndrd:7 levels";
   R2XRETH1  = "Race/Ethnicity 1997 OMB Stndrd:5 levels" ;
```

Duty Location. This variable denotes the member's duty location and was used as a crossing variable for tabulations. It is created from self-reported information from Question 5. Missing values were imputed from the ADMF or RCCPDS variable, MEMLOC.

Figure I.2.
SAS Code for Duty Location

```
/*****Creation of XMIMPL   *****/

If m9905= 1 then xmimpl = 1;  /**50 states/dc**/
Else if m9905= 2 or m9905=3 then xmimpl = 2; ;  /**overseas/territories**/
Else xmimpl = .;
Label xmimpl = "Constructed Duty Location";

If xmimpl = . & memloc in (3,7,57,59,60,14,43,52) then do;
     Xmimplf = 1;
          Xmimpl = 2;
          End;
        Else if xmimpl = . & memloc = 0 then do;
          Xmimplf = 1;
          Xmimpl = 1;
          End;
        Else xmimplf = 0;
Label xmimplf = "Locatn Impute Flag:0=No,1=Admin";
```

Service Component. This variable denotes the member's service component and was used as a crossing variable for tabulations. It is created from self-reported information from Question 108. The values for this constructed variable were filled in for members from CSERVICE if SRSVC is missing and the member record is found on the DMDC ADMF or RCCPDS file.

Figure I.3.
SAS Code for Service Component

```
/*****   Creation of XMIMPS      *****/

If srsvc = 1 then xmimps = 1;        /*army*/
Else if srsvc = 2 then xmimps = 2;   /*navy
Else if srsvc = 3 then xmimps = 3;  /*marine corps*/
Else if srsvc = 4 then xmimps = 4;  /*air force*/
Else if srsvc = 5 then xmimps = 5;  /*coast guard*/
Else xmimps = . ;
Label xmimps = "Constructed Service Component";

If xmimps = . then do;
     xmimps = cservice;
            xmimpsf = 1;
            end;
  else xmimpsf = 0;
Label xmimpsf = "Service Impute Flag:0=No,1=Admin";
```

Gender. This variable denotes the member's gender. It is created from Question 101. The values for this constructed variable were filled in for members from SEX_M if XMIMPX is missing.

Figure I.4.
SAS Code for Gender

```
/*****   Creation of XMIMPX      *****/

If srsex = 1 then xmimpx = 1;        /*male*/
Else if srsex = 2 then xmimpx = 2;  /*female*/
Else xmimpx = . ;
Label xmimpx = "Constructed Gender";

If xmimpx = . & (sex_m = 1 or sex_m =2) then do;
     Xmimpx = sex_m;
          Xmimpxf = 1;
          End;
  Else xmimpxf = 0;
Label xmimpxf = "gender impute flag:0=no,1=admin";
```

Paygrade. This variable denotes the member's paygrade. It is created from self-reported information from Question 109. Missing values were imputed from the ADMF or RCCPDS variable, PAYGRDE.

Figure I.5.
SAS Code for Paygrade

```
/*****   Creation of XMIMPP      *****/

If srgrade = 1 then xmimpp = 01;          /*enlisted e-1  */
Else if srgrade = 2 then xmimpp = 02;     /*enlisted e-2  */
Else if srgrade = 3 then xmimpp = 03;     /*enlisted e-3  */
Else if srgrade = 4 then xmimpp = 04;     /*enlisted e-4  */
Else if srgrade = 5 then xmimpp = 05;     /*enlisted e-5  */
Else if srgrade = 6 then xmimpp = 06;    /*enlisted e-6  */
Else if srgrade = 7 then xmimpp = 07;    /*enlisted e-7  */
Else if srgrade = 8 then xmimpp = 08;    /*enlisted e-8  */
Else if srgrade = 9 then xmimpp = 09;    /*enlisted e-9  */
Else if srgrade = 10 then xmimpp = 11;   /*warrant w-1  */
Else if srgrade = 11 then xmimpp = 12;   /*warrant w-2  */
Else if srgrade = 12 then xmimpp = 13;   /*warrant w-3  */
Else if srgrade = 13 then xmimpp = 14;   /*warrant w-4  */
Else if srgrade = 14 then xmimpp = 15;   /*warrant w-5  */
```

Figure I.5. (Continued)
SAS Code for Paygrade

```
Else if srgrade = 15 then xmimpp = 21;  /*officer o-1  */
Else if srgrade = 16 then xmimpp = 22;  /*officer o-2  */
Else if srgrade = 17 then xmimpp = 23;  /*officer o-3  */
Else if srgrade = 18 then xmimpp = 24;  /*officer o-4  */
Else if srgrade = 19 then xmimpp = 25;  /*officer o-5  */
Else if srgrade = 20 then xmimpp = 26;  /*officer o-6 & above  */
Else xmimpp = .;
Label xmimpp = "Constructed Paygrade";

If xmimpp = . & paygrde ne . & paygrde ne 21 then do;
    if paygrde=1 then xmimpp = 1;
            else if paygrde=2 then xmimpp = 2;
            else if paygrde=3 then xmimpp = 3;
            else if paygrde=4 then xmimpp = 4;
            else if paygrde=5 then xmimpp = 5;
            else if paygrde=6 then xmimpp = 6;
            else if paygrde=7 then xmimpp = 7;
            else if paygrde=8 then xmimpp = 8;
            else if paygrde=9 then xmimpp = 9;
            else if paygrde=10 then xmimpp =11;
            else if paygrde=11 then xmimpp =12;
            else if paygrde=12 then xmimpp =13;
            else if paygrde=13 then xmimpp =14;
            else if paygrde=14 then xmimpp =15;
            else if paygrde=15 then xmimpp =21;
            else if paygrde=16 then xmimpp =22;
            else if paygrde=17 then xmimpp =23;
            else if paygrde=18 then xmimpp =24;
            else if paygrde=19 then xmimpp =25;
     else if paygrde=20 then xmimpp =26;
    xmimppf = 1;
          end;
  else xmimppf = 0;
Label xmimppf = "Paygrd Impute Flag:0=No,1=Admin";
```

Marital Status. This variable denotes the member's marital status. It is created from self-reported information from Question 54. The values for this constructed variable were filled in for members from MARITAL if SRMARST is missing and the member record is found on the DMDC ADMF or RCCPDS file.

Figure I.6.
SAS Code for Marital Status

```
/*****   Creation of XMIMPM      *****/

If srmarst = 1 or srmarst = 2 then xmimpm = 1;   /*married*/
Else if srmarst = 3 or srmarst = 4 or
Srmarst = 5 then xmimpm = 2;                  /*not married*/
Else xmimpm = .;
label xmimpm = "Constructed Marital Status";

If xmimpm = . & marital = 2 then do;
     xmimpm = 1;
          xmimpmf = 1;
          end;
  Else if xmimpm = . & (marital = 1 | marital = 3) then do;
     xmimpm = 2;
          xmimpmf = 1;
          end;
  Else xmimpmf = 0;
Label xmimpmf = "Marital Impute Flag:0=No,1=Admin";
```

Constructed Paygrade Category. The variable is constructed as a crossing variable for tabulations. It is created from XMIMPP.

Figure I.7.
SAS Code for Paygrade Category

```
/*****   Creation of XMIMPPC    *****/

If xmimpp in (01, 02, 03) then xmimppc = 1;                    /**E1-E3**/
Else if xmimpp = 04 then xmimppc = 2;                          /**E4**/
Else if xmimpp in (05, 06) then xmimppc = 3;                   /**E5-E6**/
Else if xmimpp in (07, 08, 09) then xmimppc = 4;               /**E7-E9**/
Else if xmimpp in (11, 12, 13, 14, 15) then xmimppc = 5;       /**W1-W5**/
Else if xmimpp in (21, 22, 23) then xmimppc = 6;               /**O1-O3**/
Else if xmimpp > 23 then xmimppc = 7;                          /**O4-O6**/
Label xmimppc = "Constructed Paygrade: 7 groups";
```

Construction of Additional Variables

In anticipation of a demand for analyses by regional location, occupation, and marital status, several variables were constructed at the time of sample selection and are included in the public-release file. CREGINS was constructed to collapse duty locations into regions. Past demands to perform analyses based on duty occupation information required the inclusion of member duty occupation categories, OCCAREA. Additionally, JOINT, the variable indicating marital status of member (including whether member was married to an active duty military member or Guard/Reserve member in a full-time active duty program) is included for the convenience of future researchers. Figure I.8 contains the SAS code used for CREGINS, OCCAREA, and JOINT.

Figure I.8.
SAS Code for Additional Constructed Variables

```
/***** Creation of cregins ******/

If memloc in(0,57,59,60) then memloc1 = dutyloc;
    else memloc1 = memloc;

If 01 le memloc1 le 56 | memloc1 eq 58 then cregins=1;   /* us */

Else if memloc1 in (63,65,73,91,92,94,241,102,103,107,110,111,
                    112,120,121,126,128,245,246,219,148,156,161,
                    169,170,174,189,194,195,202,204,108,216)
     then cregins=2;  /* europe */

Else if memloc1 in(238,242,243,247,188,248,250,251,219,68,75,77,82,
                   88,231,100,109,115,133,140,147,154,159,160,175,
                   179,181,185,235,197,199,203,218,187,166,167,192,
                   200,209,211,59,221,226,97,122,127,132,136,138,57,
                   153,155,162,163,221,178,81,196,201,221,214,60,61,
                   64,67,69,70,78,83,86,89,90,95,96,98,104,105,114,
                   117,118,129,130,151,158,164,182,190,217,220,
                   254,240,253)
     then cregins=3;  /* other */

Else if memloc1 in(62,74,76,84,101,123,131,134,135,137,145,222,157,
                   168,183,198,212,119,176,207,223)
     then cregins=4;   /* asia&pi */

Else if memloc1 = 0 then cregins=0; /* unknown */
```

Figure I.8. (continued)
SAS Code for Additional Constructed Variables

```
/***** Creation of OCCAREA *****/

   dutyocc=put(ddutyocc,z3.);

   if paygrade <=9 then oe=1;
   else oe=2;

   if oe=1 then do;
       eoccarea=substr(dutyocc,1,1);
   end;
   else if oe=2 then do;
       ooccarea=substr(dutyocc,1,1);
   end;

Length occarea $2;
  length eoccarea ooccarea $1;
  if dutyocc = '000' then occarea='..';
  else if eoccarea ne ' ' then occarea='e'||eoccarea;          /**enlisted occupation areas**/
  else if ooccarea ne ' ' then occarea='o'||ooccarea;                  /**officer occupation areas**/


/***** Creation of JOINT *****/

If joint = . then do;

  If fileflg='A' then do;
    If marital=0 then joint =0;  /**unknown**/
    Else if marital=2 then joint=1; /**married non-joint**/
    Else if marital in(1,3) then joint=3; /**unmarried**/
  End;

  Fileflg='V' then do;
    If marital=9 then joint =0;  /**unknown**/
      Else if marital=7 then joint=1; /**married non-joint**/
      Else if marital in(1,2,3, 4,5,6) then joint=3; /**unmarried**/
    End;

End;
```

Editing

The edits presented in Figures I.9 through I.11 are those that were performed for analyses of the 1999 ADS Form A as reported by Helba et al. (2001) and Gaines et al. (2000a, 2000b). However, edits shown in Figures I.10 through I.11 are considered to be suggestions of how data editing might be approached but were not performed to permanently alter the variables. Please refer to the coding scheme (Appendix D) and the annotated questionnaire (Appendix C) when assessing the edits in Figures I.10 through I.11.

Program Use and Availability. These variables were derived from self-reported information to Question 52 and were recoded into two sets of variables. The first set of variables categorizes the availability of programs, services or facilities: *available or not available*. The second set of variables report the usage of the service, program, or facility if available.

Figure I.9.
SAS Code for Program Use and Availability

```
/**** Creation of MA952A 01-13 & MU952A 01-13 *******/
/**  The original variables are M9952A01-M9952A13 & M9952B01-M9952B13    **/
/************ Store Original Values First ***************************/

MU952A01 = M9952A01        ;
MU952A02 = M9952A02        ;
MU952A03 = M9952A03        ;
MU952A04 = M9952A04        ;
MU952A05 = M9952A05        ;
MU952A06 = M9952A06        ;
MU952A07 = M9952A07        ;
MU952A08 = M9952A08        ;
MU952A09 = M9952A09        ;
MU952A10 = M9952A10        ;
MU952A11 = M9952A11        ;
MU952A12 = M9952A12         ;
MU952A13 = M9952A13        ;
MU952B01 = M9952B01        ;
MU952B02 = M9952B02        ;
MU952B03 = M9952B03        ;
MU952B04 = M9952B04        ;
MU952B05 = M9952B05         ;
MU952B06 = M9952B06        ;
MU952B07 = M9952B07        ;
MU952B08 = M9952B08        ;
MU952B09 = M9952B09        ;
MU952B10 = M9952B10         ;
MU952B11 = M9952B11        ;
MU952B12 = M9952B12        ;
MU952B13 = M9952B13        ;
```

Figure I.9. (continued)
SAS Code for Program Use and Availability

```
/**** Creation of MA952A 01-13 & MU952A 01-13 *******/
/**  The variables MU... are the recodes where 69 are set to missing     **/
/**  The variables MA... are the collapsed recodes of only 2 categories  **/
/**  Preserve Special Missings for both recodes          **/


if M9952A01 = 69 then MA952A01 = 2;                    /**Not available**/
  else if 0 <= M9952A01 <= 6 then MA952A01 = 1;        /**   Available  **/
  else MA952A01 = M9952A01;
if M9952A01 = 69 then MU952A01 =.;

if M9952A02 = 69 then MA952A02 = 2;
  else if 0 <= M9952A02 <= 6 then MA952A02 = 1;
  else MA952A02 = M9952A02;
if M9952A02 = 69 then MU952A02 =.;

if M9952A03 = 69 then MA952A03 = 2;
  else if 0 <= M9952A03 <= 6 then MA952A03 = 1;
  else MA952A03 = M9952A03;
if M9952A03 = 69 then MU952A03 =.;

if M9952A04 = 69 then MA952A04 = 2;
    else if 0 <= M9952A04 <= 6 then MA952A04 = 1;
  else MA952A04 = M9952A04;
if M9952A04 = 69 then MU952A04 =.;

if M9952A05 = 69 then MA952A05 = 2;
    else if 0 <= M9952A05 <= 6 then MA952A05 = 1;
  else MA952A05 = M9952A05;
if M9952A05 = 69 then MU952A05 =.;

if M9952A06 = 69 then MA952A06 = 2;
    else if 0 <= M9952A06 <= 6 then MA952A06 = 1;
  else MA952A06 = M9952A06;
if M9952A06 = 69 then MU952A06 =.;
```

Figure I.9. (continued)
SAS Code for Program Use and Availability

```
if M9952A07 = 69 then MA952A07 = 2;
    else if 0 <= MU952A07 <= 6 then MA952A07 = 1;
  else MA952A07 = M9952A07;
if M9952A07 = 69 then MU952A07 =.;

if M9952A08 = 69 then MA952A08 = 2;
    else if 0 <= M9952A08 <= 6 then MA952A08 = 1;
  else MA952A08 = M9952A08;
if M9952A08 = 69 then MU952A08 =.;

if M9952A09 = 69 then MA952A09 = 2;
    else if 0 <= M9952A09 <= 6 then MA952A09 = 1;
  else MA952A09 = M9952A09;
if M9952A09 = 69 then MU952A09 =.;

if M9952A10 = 69 then MA952A10 = 2;
    else if 0 <= M9952A10 <= 6 then MA952A10 = 1;
  else MA952A10 = M9952A10;
if M9952A10 = 69 then MU952A10 =.;

if M9952A11 = 69 then MA952A11 = 2;
    else if 0 <= M9952A11 <= 6 then MA952A11 = 1;
  else MA952A11 = M9952A11;
if M9952A11 = 69 then MU952A11 =.;

if M9952A12 = 69 then MA952A12 = 2;
    else if 0 <= M9952A12 <= 6 then MA952A12 = 1;
  else MA952A12 = M9952A12;
if M9952A12 = 69 then MU952A12 =.;

if M9952A13 = 69 then MA952A13 = 2;
    else if 0 <= M9952A13 <= 6 then MA952A13 = 1;
  else MA952A13 = M9952A13;
if M9952A13 = 69 then MU952A13 =.;
```

Figure I.9. (continued)
SAS Code for Program Use and Availability

```
/**** Creation of MA952B 01-13 & MU952B 01-13 *******/
/**  The variables MU... are the recodes where 70 are set to missing     **/
/**  The variables MA... are the collapsed recodes of only 2 categories  **/

if M9952B01 = 70 then MA952B01 = 2;                    /**Not available**/
  else if 0 <= M9952B01 <= 6 then MA952B01 = 1;        /**   Available  **/

  else MA952B01 = M9952B01;
if M9952B01 = 70 then MU952B01 =.;

if M9952B02 = 70 then MA952B02 = 2;
  else if 0 <= M9952B02 <= 6 then MA952B02 = 1;
  else MA952B02 = M9952B02;
if M9952B02 = 70 then MU952B02 =.;

if M9952B03 = 70 then MA952B03 = 2;
  else if 0 <= M9952B03 <= 6 then MA952B03 = 1;
  else MA952B03 = M9952B03;
if M9952B03 = 70 then MU952B03 =.;

if M9952B04 = 70 then MA952B04 = 2;
    else if 0 <= M9952B04 <= 6 then MA952B04 = 1;
  else MA952B04 = M9952B04;
if M9952B04 = 70 then MU952B04 =.;

if M9952B05 = 70 then MA952B05 = 2;
    else if 0 <= M9952B05 <= 6 then MA952B05 = 1;
  else MA952B05 = M9952B05;
if M9952B05 = 70 then MU952B05 =.;

if M9952B06 = 70 then MA952B06 = 2;
    else if 0 <= M9952B06 <= 6 then MA952B06 = 1;
  else MA952B06 = M9952B06;
if M9952B06 = 70 then MU952B06 =.;

if M9952B07 = 70 then MA952B07 = 2;
    else if 0 <= M9952B07 <= 6 then MA952B07 = 1;
  else MA952B07 = M9952B07;
if M9952B07 = 70 then MU952B07 =.;
```

Figure I.9. (continued)
SAS Code for Program Use and Availability

```
If MU952B08 = 70 then MA952B08 = 2;
Else if 0 <= MU952B08 <= 6 then MA952B08 = 1;
Else MA952B08 = .;
If MU952B08 = 70 then MU952B08 =.;

If MU952B09 = 70 then MA952B09 = 2;
Else if 0 <= MU952B09 <= 6 then MA952B09 = 1;
Else MA952B09 = .;
If MU952B09 = 70 then MU952B09 =.;

If MU952B10 = 70 then MA952B10 = 2;
Else if 0 <= MU952B10 <= 6 then MA952B10 = 1;
Else MA952B10 = .;
If MU952B10 = 70 then MU952B10 =.;

If MU952B11 = 70 then MA952B11 = 2;
Else if 0 <= MU952B11 <= 6 then MA952B11 = 1;
Else MA952B11 = .;
If MU952B11 = 70 then MU952B11 =.;

If MU952B12 = 70 then MA952B12 = 2;
Else if 0 <= MU952B12 <= 6 then MA952B12 = 1;
Else MA952B12 = .;
If MU952B12 = 70 then MU952B12 =.;

If MU952B13 = 70 then MA952B13 = 2;
Else if 0 <= MU952B13 <= 6 then MA952B13 = 1;
Else MA952B13 = .;
If MU952B13 = 70 then MU952B13 =.;
```

Spouse Employment. This variable denotes the employment status of individuals married to military member. It was obtained from proxy reported information from Q55 (the standard DoD item for measure spouse employment). A series of priority rules were established to collapse multiple responses into one of the four mutually exclusive spouse employment statuses.

Figure I.10.
SAS Code for Spouse Employment Status

```
/***** Creation of SPO_EMPL *****/

/**Compute for married members only**/

If xmimpm = 1 then do;
If m9955a=2 or m9955b=2 then spo_empl=2;                          /**Armed Forces Spouse**/
   Else if m9955d=2 or m9955e=2 or m9955f=2 or m9955g=2 or m9955h=2
      Or m9955i=2 or m9955j=2 or m9955k=2 then spo_empl=1;        /**Civilian Spouse**/
   Else if m9955c=2 then spo_empl=2;
   Else if m9955l=2 then spo_empl=3;                              /**Unemployed Spouse**/
   Else if m9955m=2 or m9955n=2 or m9955o=2 or m9955p=2 then spo_empl=4;
                                                    /**Voluntarily Out of Work Force**/
   else spo_empl=.;                          /**No Response**/
   end;
If spo  empl=. And xmimpm= 2 then spo  empl=.n;                   /**Not Applicable**/
```

Spouse Employment Trend. This variable modifies the priority rules established for variable SPO_EMPL in order to report 1999 spouse employment data comparable to data reported in 1985 and 1992. This variable denotes other types of National Guard or Reserve spouses as Armed Forces spouses although may also be employed in a civilian job.

Figure I.11.
SAS Code for Spouse Employment Trend

```
/** Trend Variable (Makes variable comparable to 1985 & 1992) **/

/**Compute for married members only**/

If xmimpm = 1 then do;
If m9955a=2 or m9955b=2 or m9955c=2 then trend=2;              /**Armed Forces Spouse**/
   Else if m9955d=2 or m9955e=2 or m9955f=2 or m9955g=2 or m9955h=2
      Or m9955i=2 or m9955j=2 or m9955k=2 then trend=1;      /**Civilian Spouse**/
   Else if m9955l=2 then trend=3;                                  /**Unemployed Spouse**/
   Else if m9955m=2 or m9955n=2 or m9955o=2 or m9955p=2 then trend=4;
                                                                   /**Voluntarily Out of Work Force**/
Else trend=. ;                                                     /**No Response**/
End;
If trend=. And xmimpm =2 then trend=.n;                    /**Not Applicable**/
label trend = "Spouse Employment - Correcting for 1992 Definition";
```

Family Type. This variable was created from self-reported information from Questions 54, 59, and 55. It denotes the makeup of the member's family. A hierarchy was established to collapse information into categories because respondents were given the opportunity to answer more than one response category for spouse job status.

Figure I.12.
SAS Code for Family Type

```
/* Family type */

If m9958=2 then do;
        m9959a=0; m9959b=0; m9959c=0; m9959d=0; m9959e=0;
    end;

If xmimpm=1 & m9955a=2 & m9959a=0 & m9959b=0 & m9959c=0
        & m9959d=0 & m9959e=0 then famtyp2=1;       /**AD spouse w/o children**/
Else if xmimpm=1 & m9955a=2 and (m9959a ne 0 | m9959b ne 0 | m9959c ne 0
        | m9959d ne 0 | m9959e ne 0) then famtyp2=2;    /**AD spouse w children**/
Else if xmimpm=1 & (m9955b=2 | m9955c=2) & m9959a=0 & m9959b=0
        & m9959c=0 & m9959d=0 & m9959e=0 then famtyp2=3;          /**RC spouse w/o children**/
Else if xmimpm=1 & (m9955b=2 | m9955c=2) & (m9959a ne 0 | m9959b ne 0
        | m9959c ne 0 | m9959d ne 0 | m9959e ne 0) then famtyp2=4;      /**RC spouse w children**/
Else if xmimpm=1 & spo_empl in (1,3,4) & m9959a=0 & m9959b=0
        & m9959c=0 & m9959d=0  & m9959e=0 then famtyp2=5;          /**Civ spouse w/o children**/
Else if xmimpm=1 & spo_empl in (1,3,4) & (m9959a ne 0 | m9959b ne 0
        | m9959c ne 0 | m9959d ne 0 | m9959e ne 0) then famtyp2=6;      /**Civ spouse w children**/
Else if xmimpm=2 & m9959a=0 & m9959b=0 & m9959c=0 & m9959d=0
        & m9959e=0 then famtyp2=7;                          /**Unmarried w/o children**/
Else if xmimpm=2 & (m9959a ne 0 | m9959b ne 0 | m9959c ne 0
        | m9959d ne 0 | m9959e ne 0) then famtyp2=8;    /**Unmarried w children**/
    if famtyp2=. Then famtyp2=9;                                  /**Unknown/Missing**/
```

Appendix J

Software Applications for the Analysis of the ADS Form A

Software Applications for the Analysis of the ADS Form A

Variance estimation procedures have been developed to account for the sample design and estimators employed in a complex survey. Using these procedures, factors such as the selection of sample in multiple stages and the use of differential sampling rates to oversample a targeted subpopulation can be appropriately reflected in estimates of sampling error. The two main methods for estimating variances from a complex survey are known as Taylor series variance estimation and replication. Wolter (1985) is a useful reference on the theory and applications of these methods. Shao (1996) is a more recent review paper that compares the methods.

Standard statistical software packages that always assume simple random sampling may not properly compute variance estimates from weighted data that were collected with a design other than simple random sampling. Analyzing the ADS datasets with the proper use of PSW0 as the weighting factor in standard statistical programs will result in accurate point estimates[18] but will not result in accurate variance estimates.

This appendix gives guidance for the analysis[19] of ADS by three software packages (WesVar, SUDAAN, and SAS) that take into account the variance structure of surveys. In general, SUDAAN, WesVar, and SAS all produce the same point estimates.[20] The differences are in the methods used to compute the variances. While WesVar only uses replication methods and SUDAAN can use both replication methods and Taylor series expansions, SAS only uses Taylor series expansions. While SAS has a more limited set of statistics available at this time, it can still produce most of the statistics typically reported from survey data. In version 7, SAS first introduced procedures for estimating variances in data with complex variance structures. However, in Version 8 an important option was added with the *DOMAIN* statement.

For reference, Table J-1 lists some of the features available in SUDAAN, SAS, and WesVar that are relevant to DMDC survey analysis. This list is not exhaustive, particularly for SUDAAN and WesVar. There are other analysis features in SUDAAN and WesVar that may also be of interest to some data users.

Structure of Datasets

Both the confidential file and public-release ADS files contain 66,040 records, one for every sampled individual. These 66,040 records can be divided into three subgroups which are used for different analytic purposes and may be required by different analytic packages. One subgroup (ELIGFLGW = 3) is composed of nonrespondents and these

[18] Differences may occur in point estimates (e.g., means, percentages, and correlations) from different statistical packages as the result of different methods of handling missing data by some procedures.
[19] While all three packages can handle at least some regression functions, this introduction is limited to percentages.
[20] Since programs may handle missing values differently, estimates may be different when missing values are present.

Table J-1.
Features of Three Software Packages for the Analysis of Survey Data.

Feature	SUDAAN	SAS	WesVar
Estimation features reflected in variance estimates			
Stratification	x	x	x
Ineligible cases in poststratification frame	x	x	x
Nonresponse adjustments	NA	NA	x
Poststratification	x	NA	x
Finite population correction factors	x	x	x
Tables			
Totals/standard errors	x	x	x
Means/standard errors	x	x	x
Proportions/standard errors	x	x	x
Multi-way tables	x	x	x
Differences of cell estimates/standard errors	x	NA	x
Ratios of cell estimates	x	NA	x
Linear regression			
Parameter estimates/standard errors	x	x	x
Confidence intervals for parameters	x	x	x
Logistic regression			
Parameter estimates/standard errors	x	NA	x
Confidence intervals for parameters	x	NA	x
Odds ratios/confidence intervals	x	NA	x
Multinomial logistic regression (unordered categories)			
Parameter estimates/standard errors	x	NA	x
Odds ratios/confidence intervals	x	NA	x
Multinomial logistic regression (ordered categories)			
Parameter estimates/standard errors	x	NA	NA
Odds ratios/confidence intervals	x	NA	NA

Note: NA= not available.

records are only needed to analyze response rates to the survey and need not be retained for any other analyses. The primary analytic subgroup (ELIGFLGW = 1) is comprised of eligible respondents and these records are typically all that are required for analyses.

The last subgroup (ELIGFLGW = 2) is known ineligibles and these records were used along with the eligible respondents to develop weights that sum to the population total. Records for the respondents and for the known ineligibles (ELIGFLGW = 1 and 2, respectively) can be used to compute variance estimates by the Taylor series linearization method implemented by SUDAAN and SAS Version 8. All 36,100 records with ELIGFLGW equal to 1 or 2 should be used in the analytic dataset for SUDAAN.[21] The records for known ineligibles are not used in the point estimates, but they are used in computing variances.

While the effect of excluding just the ineligible records may be small on Taylor series

[21] SUDAAN could also process all records. It would simply skip the 29,940 records with zero weights (PSW0 = 0).

variance estimates, other steps to further subset the dataset before passing it to SUDAAN may lead to more serious errors in variance estimates. For example, if the dataset were subset to just the DoD Services (excluding the Coast Guard) by keeping only records where XMIMPS is less than 5, SUDAAN would issue warnings.[22] In this particular situation, SUDAAN could still estimate the variances though they would be very slightly different than estimates using the full dataset of 36,100 records.

Analysis of ADS Form A Using WesVar

This section describes the use of WesVar for the analysis of data for the 1999 ADS Form A survey in order to compute sample estimates and their corresponding standard errors.

WesVar is a package developed by Westat that uses replication methods to compute variance estimates. Through the use of replicates, adjustments made during weighting (e.g., nonresponse, poststratification) can be taken into account by making the same adjustments to each replicate separately. Replication is computer intensive, but powerful personal computers have largely eliminated this as an issue. However, it is still possible that for very large data sets, the computations will exceed the capacity of the machine or take a long time. Although replication can be used for most estimates, replication techniques are not necessarily appropriate for all sample statistics of interest. Special care is needed when trying to estimate median, quartiles, or other quantiles. Direct estimates of sampling errors for quantiles are not supported,[23] although alternative methods such as those of Woodruff (1952) are available in the software.

WesVar is an interactive program centered on sessions called “workbooks.” A workbook is a file linked to a specific WesVar dataset. In a workbook, the user can request descriptive statistics, as well as analyze and create new statistics. The information about the design is incorporated into the replicate weights when the data file is created. For descriptive statistics and analysis variables, "requests" are defined within a workbook. Regression requests support both linear and logistic models. Outputs include statistics such as the sum of weights, means, and percentages, along with their corresponding standard errors, design effects, coefficients of variation (CV), and confidence intervals.

Creation of WesVar Files

WesVar uses special files to compute statistics.[24] The first step is to transform the SAS files into a WesVar data file known as a VAR file. Prior to the creation of the file, it is recommended to subset the SAS file to include only the eligible records (ELIGFLGW=1). In this way, there is no need to use a subpopulation option to run statistics about the eligible population. Once the file has been subset, create an XPT file for importation into WesVar. The creation of the VAR file is a two step process. The first step is to open a new “WesVar Data

[22] A sample warning is “There is a problem with nest variable TVSTR=74.000000 in record 19622. It has only one _OBSN_whose value is 19623.000000. Standard fixup is to use the square of the taylorized deviation for _OBSN_=19623.000000 as the contribution to the variance.”

[23] Linearlization and replication do not apply to quantiles because quantiles are not smooth functions (see Francisco & Fuller, 1991.

[24] These files are available on CD-ROM for the ADS (1999 Survey of Active Duty Personnel, 2001).

File" and select the XPT file. From the "Source variable" column, move the final weight variable, PSW0, into the cell labeled "Full Sample" and move DMDC_ID into the cell labeled "ID". In the case of the ADS, the other information about the design (variance strata and weight adjustments) has been incorporated during the creation of the replicate weights. From the source variable column, move the replicate weights, PSW1—PSW170, into the column labeled "Replicates". The remaining items in the source variable column can be moved into the column labeled "Variables" for analysis as independent and dependent variables and any items not moved to the "Variables" column will not be included in the new WesVar dataset. Select JKn as the variance estimation method and save the file. The variance estimation method (JKn) requires two additional files: 1) a file with the finite population factors (FPC.DAT) and 2) a file with the JKn factors (JKN.DAT). Attaching these factors to the dataset constitutes the second step in creating a WesVar dataset. To attach the factors, select "Data" from the toolbar and "Attach factors" from the dropdown menu. In the "Attach factors" window, select the FPC factor column and open the FPC.dat file from "External FPC Factors". Repeat the process for the JKn Factor column to attach the JKN.dat file. Click "OK" to save the final WesVar dataset.

Specifying a Workbook and Running a Simple Table

To create a workbook, select "New WesVar Workbook" on the opening WesVar screen, which brings up the screen shown in Figure J-1.[25] The "Add Table Set (Single)" and "Add Table Set (Multiple)" buttons are alternative ways of defining tables. The first example discussed here will be to create a one-way table of the numbers of persons in each level of the computed service variable, XMIMPS.

To define this table, click the button "Add Table Set (Single)", which brings up the screen in Figure J-2. From the Source Variables list in the right-hand panel, select and drag the variable XMIMPS to the Selected box. You then click the button "Add as New Entry" to add the table to the workbook tree on the left. In the column labeled "Sum of Weights", the checks indicate that estimated totals (Value) and the cell percentages (Percent), associated with each cell total, will be printed in the output.

You can give more descriptive labels to nodes of the workbook tree if desired. For example, you can highlight the "Table Request One" node in the left-hand panel in Figure J-1 and change the Request Name to "Simple Tabulations" in the right-hand panel.

To run the XMIMPS table, select Requests/Run Workbook Requests from the menu or click the green triangle in the toolbar. When the calculation has been completed, the book icon in the toolbar will no longer be gray. You can then view the output by selecting Requests/View Output from the menu or by clicking the book icon. The output is shown in Listing J-1. The particular statistics to be printed are selected in the Options/Generated Statistics node in Figure J-2. The ones shown in Listing J-1 are the estimate, standard error, CV(%), numerator and denominator sample sizes for percentages (CELL_n and DENOM_n in the output), and design effect. Other choices are confidence intervals (computed using the *t* approximation or the Wilson method for percentages), the effective sample size (defined as the actual sample size divided by the design effect), and the *p*-values for testing whether parameters are zero.

[25] The examples and screenshots in this section were done using version 4 of WesVar. Version 3 is similar.

Figure J-1.
A WesVar Workbook

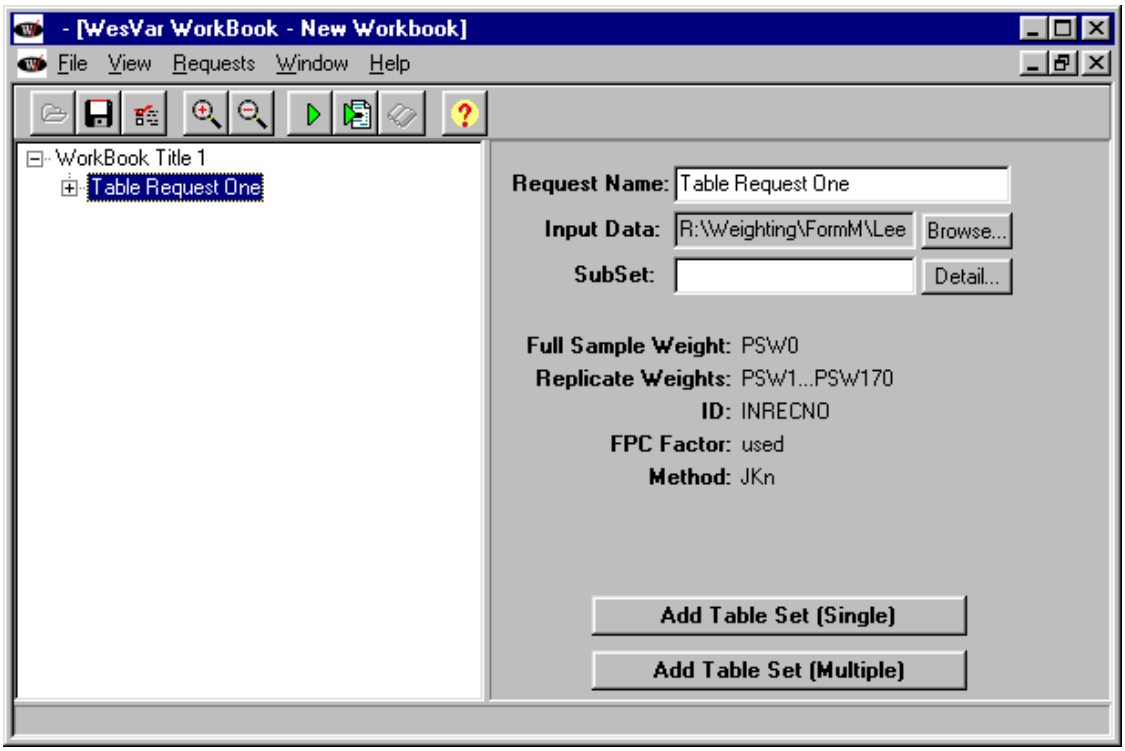
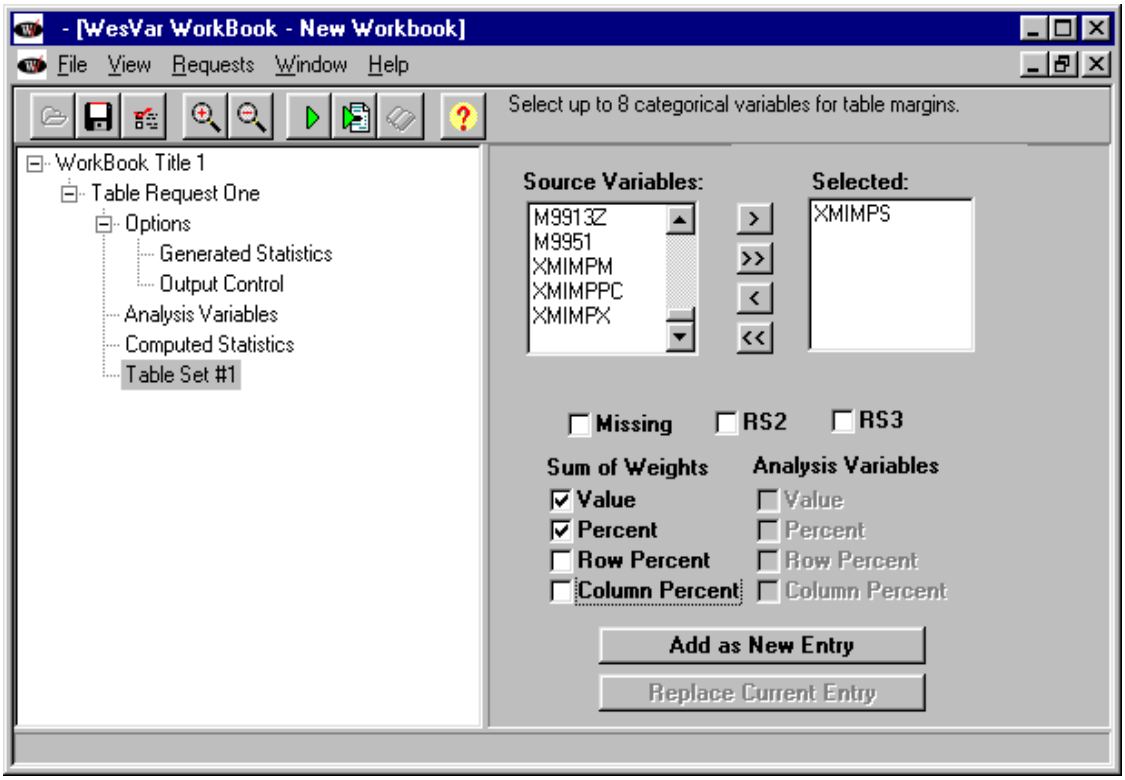


Figure J-2.
Defining a WesVar table request.



Listing J-1.
Sample WesVar Output of Marginal Totals, Percentages, and Standard Errors.

```
Summary Information of Table Request One

               WESVAR VERSION NUMBER :                                v4.0
               TIME THE JOB EXECUTED :                         1/5/01 13:27
                  INPUT DATASET NAME :  O:\ADS\Weighting\FormM\Lee\adsmem.var
      TIME THE INPUT DATASET CREATED :                         1/3/01 11:47
                  FULL SAMPLE WEIGHT :                                PSW0
                   REPLICATE WEIGHTS :                       PSW1...PSW170
          VARIANCE ESTIMATION METHOD :                                 JKn

                     OPTION COMPLETE :                                  ON
                  OPTION FUNCTION LOG :                                 ON
                OPTION VARIABLE LABEL :                                OFF
                  OPTION VALUE LABEL :                                 OFF
    OPTION OUTPUT REPLICATE ESTIMATES :                                OFF
  FINITE POPULATION CORRECTION FACTOR :                                  1
  VALUE OF ALPHA (CONFIDENCE LEVEL %) :                0.05000 (95.00000 %)

                  ANALYSIS VARIABLES :                     None Specified.
                  COMPUTED STATISTIC :                     None Specified.
                            TABLE(S) :                             XMIMPS


                          FACTOR(S) :    0.48 0.48 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
                                         1.00 1.00 0.48 1.00 1.00 1.00 1.00 1.00 1.00 1.00
                                         1.00 1.00 1.00 0.48 1.00 1.00 1.00 1.00 1.00 1.00
                                         1.00 1.00 1.00 1.00 0.48 1.00 1.00 1.00 1.00 1.00
                                         1.00 1.00 1.00 1.00 1.00 0.48 1.00 1.00 1.00 1.00
                                         1.00 1.00 1.00 1.00 1.00 1.00 0.48 1.00 1.00 1.00
                                         1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.48 1.00 1.00
                                         1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.48 1.00
                                         0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48
                                         0.48 0.48 0.48 0.48 0.48 0.80 0.80 0.80 0.80 0.80
                                         0.80 0.80 0.80 0.80 0.48 0.80 0.80 0.80 0.80 0.80
                                         0.80 0.80 0.80 0.80 0.80 0.48 0.80 0.80 0.80 0.80
                                         0.80 0.80 0.80 0.80 0.80 0.80 0.48 0.80 0.90 0.90
                                         0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.48 0.90 0.90
                                         0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.48 0.90
                                         0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.48
                                         0.90 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00


                      JKn FACTOR(S) :    0.97 0.97 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99
                                         0.99 0.99 0.97 0.99 0.99 0.99 0.99 0.99 0.99 0.99
                                         0.99 0.99 0.99 0.97 0.99 0.99 0.99 0.99 0.99 0.99
                                         0.99 0.99 0.99 0.99 0.97 0.99 0.99 0.99 0.99 0.99
```

0.99 0.99 0.99 0.99 0.99 0.97 0.99 0.99 0.99 0.99
0.99 0.99 0.99 0.99 0.99 0.99 0.97 0.99 0.99 0.99
0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.97 0.99 0.99
0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.97 0.99
0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
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0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
0.97 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99

NUMBER OF REPLICATES : 170
NUMBER OF OBSERVATIONS READ : 33189
WEIGHTED NUMBER OF OBSERVATIONS READ : 1303750.047

XMIMPS	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	CV(%)	CELL_n	DENOM_n	DEFF
1	SUM_WTS	VALUE	453265.42	1590.023	0.351	12266	N/A	N/A
2	SUM_WTS	VALUE	337116.44	1219.261	0.362	6786	N/A	N/A
3	SUM_WTS	VALUE	150758.61	1180.457	0.783	4473	N/A	N/A
4	SUM_WTS	VALUE	331420.86	1423.74	0.43	7997	N/A	N/A
5	SUM_WTS	VALUE	31188.72	276.625	0.887	1667	N/A	N/A
MARGINAL	SUM_WTS	VALUE	1303750.05	3017.913	0.231	33189	N/A	N/A
1	SUM_WTS	PERCENT	34.77	0.09	0.259	12266	33189	0.118
2	SUM_WTS	PERCENT	25.86	0.092	0.355	6786	33189	0.146
3	SUM_WTS	PERCENT	11.56	0.081	0.7	4473	33189	0.213
4	SUM_WTS	PERCENT	25.42	0.083	0.328	7997	33189	0.121
5	SUM_WTS	PERCENT	2.39	0.022	0.908	1667	33189	0.067
MARGINAL	SUM_WTS	PERCENT	100	.	.	33189	33189	.

Comparing Two Subgroups Using WesVar

The second example discussed here will compare the percentages of two subgroups who reported choosing their current residence at their permanent duty station because they had no choice (Question 10A, variable M9910A). The two subgroups will be the Army and the Navy.

To compare two subgroups, specify a workbook as in the previous example. Then, create a two-way table comparing the service branches' (XMIMPS) responses to question M9910A. To define this table, click the button "Add Table Set (Single)" in Figure J-1, which brings up the screen in Figure J-2. From the Source Variable list in the right-hand panel, select the variables XMIMPS and M9910A and drag them to the Selected box. You then click "Add as New Entry" to add the table to the workbook tree on the left.

The levels of XMIMPS define the rows of the table while the levels of M9910A define the columns. The values XMIMPS = 1 and 2 are codes for the Army and Navy. The value M9910A = 1 means that a member reported choosing his or her current residence because there was no other choice. The following discussion illustrates how to compute the difference between the percentages of members of the Army and Navy who reported having no choice.

At this point, the workbook tree will have an entry labeled "XMIMPS*M9910A" as shown in Figure J-3. Notice there are three branches under the node XMIMPS*M9910A labeled "Cells", "Cell Functions" and "Standardized Rates." To calculate the desired difference in percentages, you must define the cells of the table that will be used and then combine the estimates for the cells with a cell function.

Click the node "Cells" in Figure J-3. From the XMIMPS list in the right-hand panel, select 1 for all Army active duty members and from the M9910A list select 1 for all members who answered "they had no choice in their current residence." A default name for the cell will appear in the Label box. By selecting the Label box, you can give the cell a more descriptive name (e.g., ArmyNoChoice) as shown in Figure J-3. You then click "Add as New Entry" to add the cell to the workbook tree. Repeat this step but instead of selecting 1 for Army active duty member in the XMIMPS list select 2 for Navy active duty members. From the M9910A list select 1 again and give the cell a more descriptive name (e.g., NavyNoChoice). Click the button "Add as New Entry" to add the cell to the workbook tree on the left.

To compare the new cells you have created, click the node "Cell Function" in the workbook tree, which brings up the screen in Figure J-4. In the Function Statistics box type "Diff =". "Diff" is a user-specified name that will be printed in the output. Then, from the Source Cells list, select and drag ArmyNoChoice into the Function Statistics box. Click (or type) the minus sign. Select and drag NavyNoChoice into the Function Statistics box and click the "Add as New Entry" button to add the function to the workbook tree. The screen should now look like Figure J-4.

In the "For" node under the "Function Statistic", SUM_WTS will have been selected by default, which is the appropriate choice in this example. With the For node selected, check the boxes for Value and Row Percent under Sum of Weights. By selecting the check box for Value, the differences in the estimated numbers in the Army and Navy who said they had no choice will

be computed and printed in the output along with its standard error. Selecting the check box for Row Percent will give the difference in the percentages for the Army and Navy and the standard error of the difference. Other statistics, like a confidence interval, can be requested in the Generated Statistics node of the workbook tree shown in Figure J-2.

To run the table, select Requests/Run Workbook Requests from the menu or click the green triangle in the toolbar. When the calculation has been completed, the book icon in the toolbar will no longer be gray. You can then view the output by selecting Requests/View Output from the menu or by clicking the book icon. The output is shown in Listing J-2. The last line of the listing gives the estimated difference to be –15.48, with a 95% confidence interval of –17.41 to –13.55 and a *t*-test value of –15.844.

Figure J-3.
Defining a cell in a workbook.

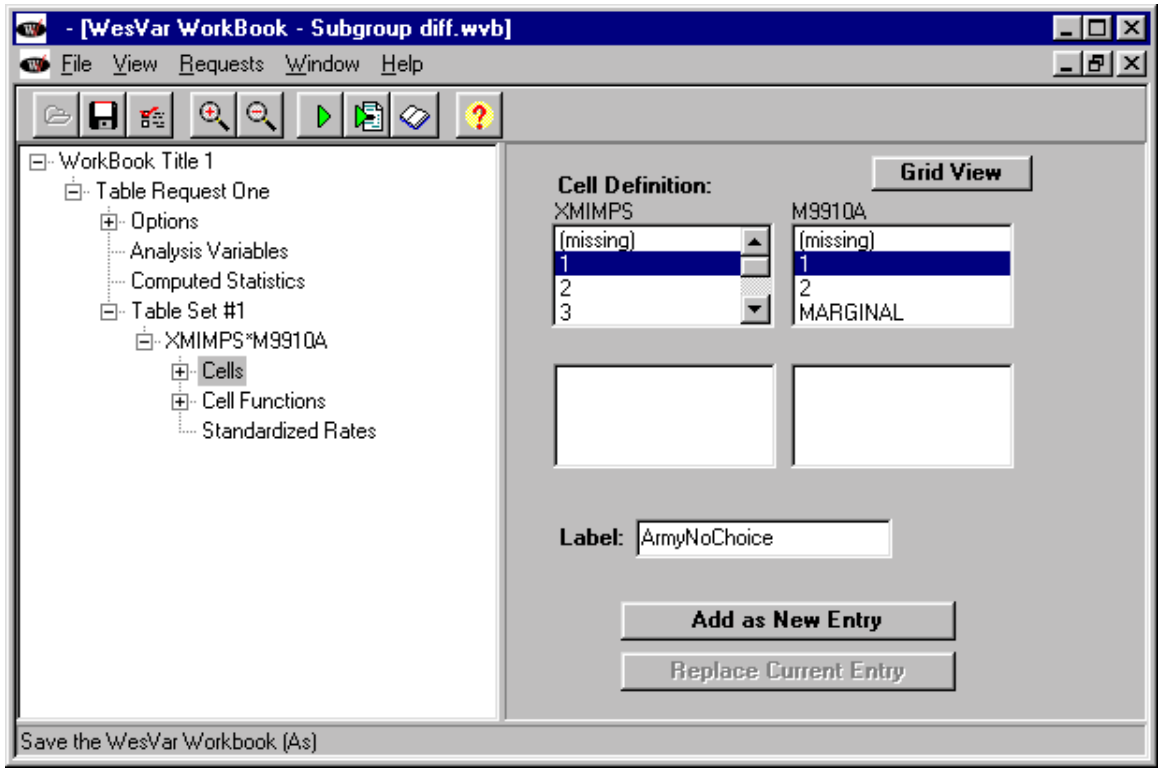
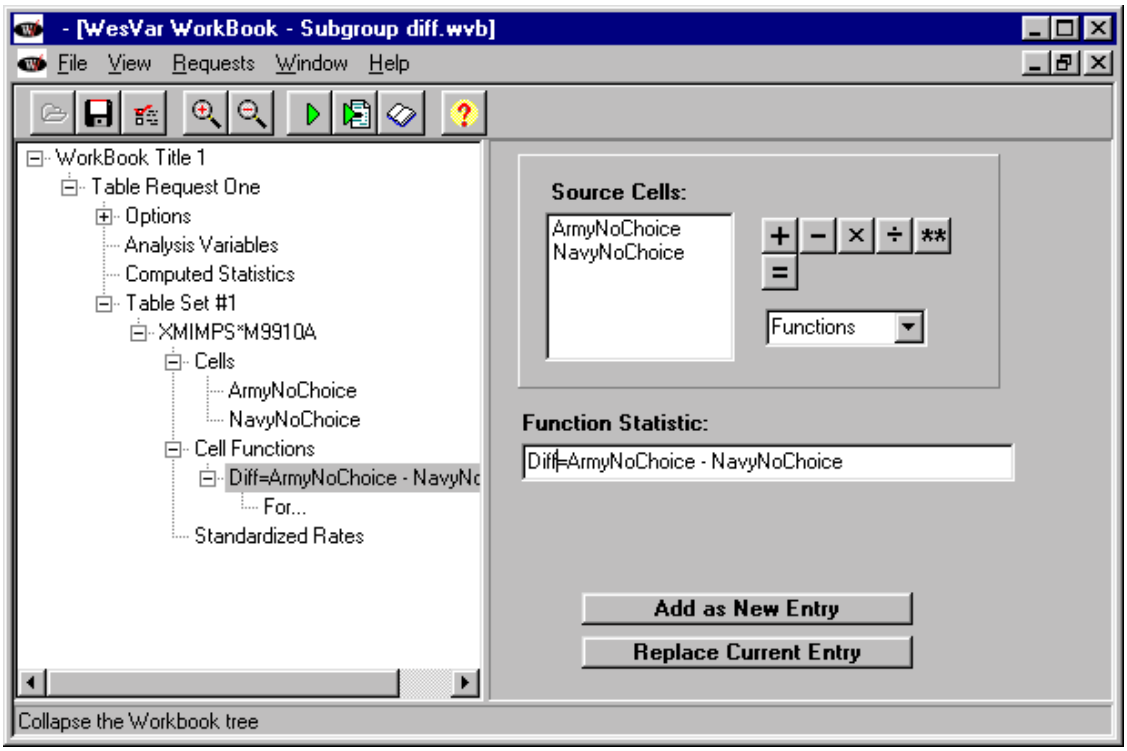


Figure J-4.
Defining a cell function.



Listing J-2.
Sample WesVar Comparison of Two Subgroups.

```
                WESVAR VERSION NUMBER :                                v4.0
                TIME THE JOB EXECUTED :                         1/4/01 13:20
                   INPUT DATASET NAME :  O:\ADS\Weighting\FormM\Lee\adsmem.var
      TIME THE INPUT DATASET CREATED :                         1/3/01 11:47
                  FULL SAMPLE WEIGHT :                                 PSW0
                   REPLICATE WEIGHTS :                        PSW1...PSW170
          VARIANCE ESTIMATION METHOD :                                  JKn

                     OPTION COMPLETE :                                  ON
                  OPTION FUNCTION LOG :                                 ON
                OPTION VARIABLE LABEL :                                OFF
                   OPTION VALUE LABEL :                                OFF
    OPTION OUTPUT REPLICATE ESTIMATES :                                OFF
  FINITE POPULATION CORRECTION FACTOR :                                  1
  VALUE OF ALPHA (CONFIDENCE LEVEL %) :                0.05000 (95.00000 %)
                  DEGREES OF FREEDOM :                                170
                             t VALUE :                              1.974

                   ANALYSIS VARIABLES :                       None Specified.
                   COMPUTED STATISTIC :                       None Specified.
                            TABLE(S) :                         XMIMPS*M9910A
```

```
                    FACTOR(S) :    0.48 0.48 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
                                   1.00 1.00 0.48 1.00 1.00 1.00 1.00 1.00 1.00 1.00
                                   1.00 1.00 1.00 0.48 1.00 1.00 1.00 1.00 1.00 1.00
                                   1.00 1.00 1.00 1.00 0.48 1.00 1.00 1.00 1.00 1.00
                                   1.00 1.00 1.00 1.00 1.00 0.48 1.00 1.00 1.00 1.00
                                   1.00 1.00 1.00 1.00 1.00 1.00 0.48 1.00 1.00 1.00
                                   1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.48 1.00 1.00
                                   1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.48 1.00
                                   0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48
                                   0.48 0.48 0.48 0.48 0.48 0.80 0.80 0.80 0.80 0.80
                                   0.80 0.80 0.80 0.80 0.48 0.80 0.80 0.80 0.80 0.80
                                   0.80 0.80 0.80 0.80 0.80 0.48 0.80 0.80 0.80 0.80
                                   0.80 0.80 0.80 0.80 0.80 0.80 0.48 0.80 0.90 0.90
                                   0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.48 0.90 0.90
                                   0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.48 0.90
                                   0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.48
                                   0.90 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

                  JKn FACTOR(S) :  0.97 0.97 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99
                                   0.99 0.99 0.97 0.99 0.99 0.99 0.99 0.99 0.99 0.99
                                   0.99 0.99 0.99 0.97 0.99 0.99 0.99 0.99 0.99 0.99
                                   0.99 0.99 0.99 0.99 0.97 0.99 0.99 0.99 0.99 0.99
                                   0.99 0.99 0.99 0.99 0.99 0.97 0.99 0.99 0.99 0.99
                                   0.99 0.99 0.99 0.99 0.99 0.99 0.97 0.99 0.99 0.99
                                   0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.97 0.99 0.99
                                   0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.97 0.99
                                   0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
                                   0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
                                   0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
                                   0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
                                   0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
                                   0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
                                   0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97
                                   0.97 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99

            NUMBER OF REPLICATES :          170
      NUMBER OF OBSERVATIONS READ :        33189
WEIGHTED NUMBER OF OBSERVATIONS READ :  1303750.047

                         TABLE :                  XMIMPS * M9910A
Cell Definition:      ArmyNoChoice :                    XMIMPS = 1
                                                        M9910A = 1
                      NavyNoChoice :                    XMIMPS = 2
                                                        M9910A = 1
              Function Statistics:  Diff = ArmyNoChoice - NavyNoChoice
                                                       FOR--SUM_WTS
```

XMIMPS	M9910A	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	LOWER 95%	UPPER 95%	t VALUE	PROB>|T|	CV(%)	CELL_n	DENOM_n	DEFF
1	1	SUM_WTS	VALUE	283961.81	2642.133	278746.2	289177.43	107.474	0	0.93	9585	N/A	N/A
1	2	SUM_WTS	VALUE	169303.61	3042.021	163298.61	175308.61	55.655	0	1.797	2681	N/A	N/A
1	MARGINAL	SUM_WTS	VALUE	453265.42	1590.023	450126.69	456404.16	285.068	0	0.351	12266	N/A	N/A
2	1	SUM_WTS	VALUE	263389.97	2381.513	258688.82	268091.12	110.598	0	0.904	5925	N/A	N/A
2	2	SUM_WTS	VALUE	73726.47	2409.395	68970.28	78482.65	30.6	0	3.268	861	N/A	N/A
2	MARGINAL	SUM_WTS	VALUE	337116.44	1219.261	334709.6	339523.28	276.492	0	0.362	6786	N/A	N/A
3	1	SUM_WTS	VALUE	79221.48	1392.645	76472.38	81970.59	56.886	0	1.758	3428	N/A	N/A
3	2	SUM_WTS	VALUE	71537.13	1459.193	68656.65	74417.6	49.025	0	2.04	1045	N/A	N/A
3	MARGINAL	SUM_WTS	VALUE	150758.61	1180.457	148428.37	153088.85	127.712	0	0.783	4473	N/A	N/A
4	1	SUM_WTS	VALUE	267774.95	2849.513	262149.96	273399.94	93.972	0	1.064	7011	N/A	N/A
4	2	SUM_WTS	VALUE	63645.91	2401.677	58904.96	68386.86	26.501	0	3.773	986	N/A	N/A
4	MARGINAL	SUM_WTS	VALUE	331420.86	1423.74	328610.37	334231.35	232.782	0	0.43	7997	N/A	N/A
5	1	SUM_WTS	VALUE	23363.56	483.518	22409.09	24318.03	48.32	0	2.07	1352	N/A	N/A
5	2	SUM_WTS	VALUE	7825.16	415.966	7004.03	8646.28	18.812	0	5.316	315	N/A	N/A
5	MARGINAL	SUM_WTS	VALUE	31188.72	276.625	30642.66	31734.78	112.747	0	0.887	1667	N/A	N/A
MARGINAL	1	SUM_WTS	VALUE	917711.78	4534.001	908761.58	926661.97	202.407	0	0.494	27301	N/A	N/A
MARGINAL	2	SUM_WTS	VALUE	386038.27	4740.786	376679.88	395396.66	81.429	0	1.228	5888	N/A	N/A
MARGINAL	MARGINAL	SUM_WTS	VALUE	1303750.05	3017.913	1297792.64	1309707.46	432.004	0	0.231	33189	N/A	N/A
1	1	SUM_WTS	ROWPCT	62.65	0.617	61.43	63.87	101.578	0	0.984	9585	12266	1.994
1	2	SUM_WTS	ROWPCT	37.35	0.617	36.13	38.57	60.563	0	1.651	2681	12266	1.994
1	MARGINAL	SUM_WTS	ROWPCT	100	.	.	.	.	.	.	12266	N/A	.
2	1	SUM_WTS	ROWPCT	78.13	0.697	76.75	79.51	112.085	0	0.892	5925	6786	1.93
2	2	SUM_WTS	ROWPCT	21.87	0.697	20.49	23.25	31.374	0	3.187	861	6786	1.93
2	MARGINAL	SUM_WTS	ROWPCT	100	.	.	.	.	.	.	6786	N/A	.
3	1	SUM_WTS	ROWPCT	52.55	0.863	50.85	54.25	60.898	0	1.642	3428	4473	1.336
3	2	SUM_WTS	ROWPCT	47.45	0.863	45.75	49.15	54.991	0	1.818	1045	4473	1.336
3	MARGINAL	SUM_WTS	ROWPCT	100	.	.	.	.	.	.	4473	N/A	.
4	1	SUM_WTS	ROWPCT	80.8	0.733	79.35	82.24	110.205	0	0.907	7011	7997	2.77
4	2	SUM_WTS	ROWPCT	19.2	0.733	17.76	20.65	26.194	0	3.818	986	7997	2.77
4	MARGINAL	SUM_WTS	ROWPCT	100	.	.	.	.	.	.	7997	N/A	.
5	1	SUM_WTS	ROWPCT	74.91	1.337	72.27	77.55	56.017	0	1.785	1352	1667	1.586
5	2	SUM_WTS	ROWPCT	25.09	1.337	22.45	27.73	18.762	0	5.33	315	1667	1.586
5	MARGINAL	SUM_WTS	ROWPCT	100	.	.	.	.	.	.	1667	N/A	.
MARGINAL	1	SUM_WTS	ROWPCT	70.39	0.343	69.71	71.07	205.155	0	0.487	27301	33189	1.875
MARGINAL	2	SUM_WTS	ROWPCT	29.61	0.343	28.93	30.29	86.299	0	1.159	5888	33189	1.875
MARGINAL	MARGINAL	SUM_WTS	ROWPCT	100	.	.	.	.	.	.	33189	N/A	.

Table Functions

LABEL	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	LOWER	UPPER	t VALUE	PROB>|T|	CV(%)
Diff	SUM_WTS	VALUE	20571.84	3625.714	13414.62	27729.06	5.674	0	17.625
Diff	SUM_WTS	ROWPCT	-15.48	0.977	-17.41	-13.55	-15.844	0	6.312

Comparing Two Analysis Variables Using WesVar

The third example discussed here will compare the response to two questions within subgroups defined by branch of the service. The questions are (1) whether the active duty member felt that selling or renting his or her previous residence was a serious problem (Question 13D, variable M9913D) versus (2) whether or not purchasing or renting his or her current residence was a serious problem (Question 13E, variable M9913E). The subgroups will be the Army, the Navy, and the Air Force.

To compare two questions within subgroups, specify a workbook as in the previous two examples. Then define a three-way table comparing the two questions (M9913D and M9913E) within each branch of service (XMIMPS). The output will be three sub-tables, one for each subgroup, comparing the percentages of those who say they had a serious problem selling or renting previous residence but not current residence less those who said current but not previous was the problem. To define this table, click the button "Add Table Set (Single)" in Figure J-1, which brings up Figure J-2. From the Source Variable list in the right-hand panel, select the variables XMIMPS, M9913D and M9913E in that order and drag them to the Selected box. You then click "Add as New Entry" to add the table to the workbook tree on the left.

The levels of XMIMPS define the sub-tables while the levels of M9913D define the rows and M9913E define the columns. The values XMIMPS = 1, 2, and 4 are codes for the Army, Navy and Air Force. The value M9913D = 1 means that a member reported that selling or renting his or her previous residence was a serious problem. The value M9913E = 1 means that a member reported that purchasing or renting his or her current residence was a serious problem.

At this point, the workbook tree will have a node labeled "XMIMPS*M9913D*M9913E" as shown in Figure J-5. Notice there are three branches under XMIMPS*M9913D*M9913E labeled "Cells," "Cell Functions" and "Standardized Rates." To calculate the desired difference in percentages, you must define the cells of the table that will be used and then combine estimates for the cells with a cell function.

Click the node "Cells" in Figure J-5. From the XMIMPS list in the right-hand panel, select 1 for all the Army active duty members. From the M9913D list, select 1. From the M9913E list, select MARGINAL. The cell (M9913D, M9913E) = (1, MARGINAL) for the Army will be used in getting the percentage of the members of the Army who reported having serious problems selling or renting out their former residence. A default name for the cell will appear in the Label box. By selecting the Label box, you can give the cell a more descriptive name (e.g., AprobSellRent) as in Figure J-5. You then click the button "Add as New Entry" to add the cell to the workbook tree. Now, from the XMIMPS list in the right-hand panel, select 1 again for all the Army active duty members. From the M9913D list, select MARGINAL. From the M9913E list, select 1. The cell (M9913D, M9913E) = (MARGINAL, 1) will be used to get the percentage who reported having serious problems purchasing or renting their current residence. By selecting the Label box, you can also give this cell a more descriptive name (e.g., AprobPurchlRent) as in Figure J-5. You then click the button "Add as New Entry" to add the cell to the workbook tree. Repeat these steps for the Navy (XMIMPS = 2) and the Air Force (XMIMPS = 4).

To compare the new cells you have created, click the node “Cell Function” in the workbook tree. This brings up the screen in Figure J-6. In the Function Statistics box type “DArmy =”. “DArmy” is a user-specified name for the difference in the two questions for the Army and will be printed in the output. Then, from the Source Cells list, select and drag AprobSellRent into the Function Statistics box. Click (or type) the minus sign. Select and drag AprobPurchRent into the Function Statistics box and click the “Add as New Entry” button to add the function to the workbook tree. In the Function Statistics box, type “DNavy =.” Then, from the Source Cells list, select and drag NprobSellRent into the Function Statistics box. Click (or type) the minus sign. Select and drag NprobPurchRent into the Function Statistics box and click “Add as New Entry.” Finally, in the Function Statistics box, type “DAirForce =.” From the Source Cells list, select and drag AFprobSellRent into the Function Statistics box. Click (or type) the minus sigh and then, select and drag AFprobPurchRent into the Function Statistics box. Click “Add as New Entry.” The screen should now look like Figure J-6.

In the “For” node under Function Statistic, the statistic SUM_WTS will have been selected by default. This is the appropriate choice in this example. With the For node selected, check the boxes for Value and Percent under Sum of Weights. By selecting Value, the differences in the estimated numbers in the two questions M9913D and M9913E will be computed and printed in the output along with their standard errors. Selecting the check box for Percent will give the difference in percentages for the two questions and the standard error of the difference. Other statistics, like a confidence interval, can be requested in the Generated Statistics node of the workbook tree shown in Figure J-2.

To run the table, select Request/Run Workbook Requests from the menu or click the green triangle in the toolbar. When the calculation has completed, the book icon in the toolbar will no longer be gray. You can then view the output by selecting Requests/View Output from the menu or by clicking the book icon. An extract of the output is shown in Listing J-3. In this example, a larger percentage of the members in each of the three services reported having more serious problems in selling or renting their former residence than they did purchasing or renting their current residence.

Figure J-5.
Defining cell in a workbook.

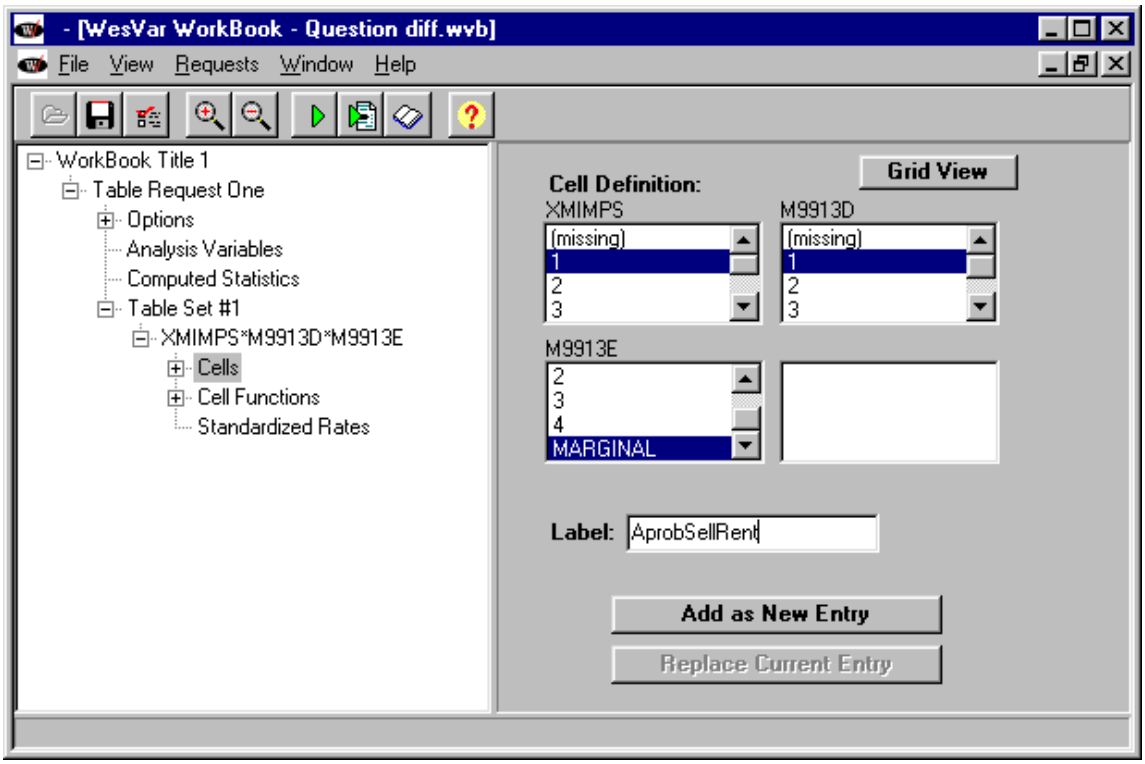
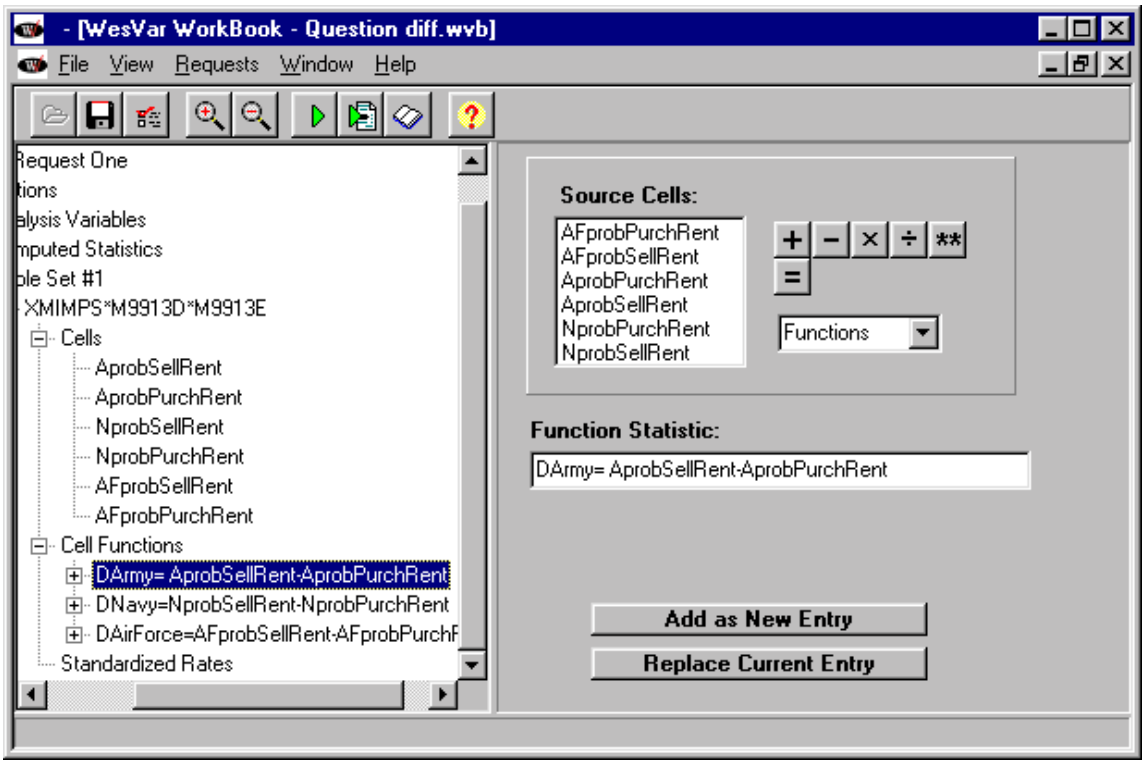


Figure J-6.
Defining a cell function.



Listing J-3.
Sample WesVar Comparison of Two Analysis Variables.

XMIMPS	M9913D	M9913E	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	t VALUE	PROB>|T|	CV(%)	CELL_n	DENOM_n	DEFF
1	1	1	SUM_WTS	PERCENT	3.05	0.347	8.797	0	11.367	131	3747	1.524
1	1	2	SUM_WTS	PERCENT	3.92	0.376	10.433	0	9.585	175	3747	1.405
1	1	3	SUM_WTS	PERCENT	2.68	0.291	9.214	0	10.853	131	3747	1.216
1	1	4	SUM_WTS	PERCENT	5.24	0.447	11.721	0	8.532	201	3747	1.509
1	1	MARGINAL	SUM_WTS	PERCENT	14.9	0.825	18.056	0	5.538	638	3747	2.012
.												
1	MARGINAL	1	SUM_WTS	PERCENT	6.94	0.539	12.864	0	7.774	278	3747	1.688
1	MARGINAL	2	SUM_WTS	PERCENT	15.47	0.958	16.158	0	6.189	627	3747	2.627
1	MARGINAL	3	SUM_WTS	PERCENT	20.5	0.895	22.901	0	4.367	838	3747	1.843
1	MARGINAL	4	SUM_WTS	PERCENT	57.08	1.069	53.387	0	1.873	2004	3747	1.749
1	MARGINAL	MARGINAL	SUM_WTS	PERCENT	100	.	.	.	.	3747	3747	.
2	1	1	SUM_WTS	PERCENT	3.13	0.472	6.624	0	15.096	70	2201	1.619
2	1	2	SUM_WTS	PERCENT	3.03	0.433	7.012	0	14.261	75	2201	1.401
2	1	3	SUM_WTS	PERCENT	2.52	0.394	6.404	0	15.614	60	2201	1.387
2	1	4	SUM_WTS	PERCENT	3.33	0.499	6.681	0	14.967	71	2201	1.7
2	1	MARGINAL	SUM_WTS	PERCENT	12.01	0.922	13.033	0	7.673	276	2201	1.769
.												
2	MARGINAL	1	SUM_WTS	PERCENT	7.8	0.73	10.694	0	9.351	168	2201	1.629
2	MARGINAL	2	SUM_WTS	PERCENT	15.89	1.025	15.506	0	6.449	388	2201	1.73
2	MARGINAL	3	SUM_WTS	PERCENT	20.45	0.99	20.668	0	4.838	496	2201	1.325
2	MARGINAL	4	SUM_WTS	PERCENT	55.85	1.306	42.762	0	2.339	1149	2201	1.523
2	MARGINAL	MARGINAL	SUM_WTS	PERCENT	100	.	.	.	.	2201	2201	.
4	1	1	SUM_WTS	PERCENT	1.9	0.281	6.744	0	14.828	74	2898	1.232
4	1	2	SUM_WTS	PERCENT	3.85	0.374	10.28	0	9.728	130	2898	1.098
4	1	3	SUM_WTS	PERCENT	3.33	0.52	6.406	0	15.611	93	2898	2.435
4	1	4	SUM_WTS	PERCENT	4.3	0.376	11.43	0	8.749	141	2898	0.996
4	1	MARGINAL	SUM_WTS	PERCENT	13.38	0.756	17.689	0	5.653	438	2898	1.43
.												
4	MARGINAL	1	SUM_WTS	PERCENT	6.31	0.611	10.337	0	9.674	211	2898	1.828
4	MARGINAL	2	SUM_WTS	PERCENT	15.86	0.754	21.037	0	4.753	514	2898	1.235
4	MARGINAL	3	SUM_WTS	PERCENT	20.81	0.907	22.947	0	4.358	680	2898	1.446
4	MARGINAL	4	SUM_WTS	PERCENT	57.01	1.296	43.979	0	2.274	1493	2898	1.987
4	MARGINAL	MARGINAL	SUM_WTS	PERCENT	100	.	.	.	.	2898	2898	.

Functions

LABEL	STATISTIC	EST_TYPE	ESTIMATE	STDERROR	t VALUE	PROB>|T|	CV(%)
DArmy	SUM_WTS	VALUE	7408.86	852.149	8.694	0	11.502
DArmy	SUM_WTS	PERCENT	7.96	0.924	8.617	0	11.605
DNavy	SUM_WTS	VALUE	3336.35	806.654	4.136	0	24.178
DNavy	SUM_WTS	PERCENT	4.21	1.001	4.208	0	23.766
DAirForce	SUM_WTS	VALUE	6086.46	763.897	7.968	0	12.551
DAirForce	SUM_WTS	PERCENT	7.06	0.904	7.809	0	12.806

Comparing Estimates from Different Surveys Using WesVar

A *t*-statistic for independent samples can be used to compare an estimate obtained from one survey with an estimate obtained from an independently selected sample in another survey. The example discussed here will compare the *DMDC 1999 Survey of Active Duty Personnel (Form A)* and the *1999 Survey of Spouses of Active Duty Personnel (Form B)*, which are independent of one another. Each survey contains a questionnaire item where the respondents report how much of a problem they had selling or renting their former residence during their most recent PCS move. The questions are M9913D for the *1999 Survey of Active Duty Personnel* and S9910D for the *1999 Survey of Spouses of Active Duty Personnel*.

To compare the proportion of persons who report that it was a serious problem, first use WesVar to compute the proportions and standard errors for each of the surveys separately. For *Form A* there are two variables of interest, XMIMPM and M9913D. The variable XMIMPM indicates the marital status of the active duty members. The value of XMIMPM=1 indicates that the member reported being married. For question M9913D it is important to subset married members from non-married members. To do this, first create a workbook as shown in the previous examples. When creating a table request (Figure J-1) type "XMIMPM=1" in the input box labeled Subset. Then create a simple table for the variable M9913D as in the first WesVar example. The output lists the percent estimates and standard errors for all married active duty members. The percent estimate for married active duty member who reported having serious problems selling or renting their former residence during their most recent PCS move is 15.71 and the standard error is 0.496. Denote the estimated percentage and standard error by p_M and se_M.

Next, create a new workbook for *Form B*. Create another table for the variable S9910D. The output lists percent estimates and standard errors for all spouses of active duty members. The percent estimate for spouses of active duty members who reported having serious problems selling or renting their former residence during their most recent PCS move is 16.54 and the standard error is 0.637. Denote the estimated percentage and standard error for spouses by p_S and se_S.

To compare the proportions p_S and p_M, the following formula is used for computing the standard error of the difference:

$$se_{S-M} = \sqrt{se_S^2 + se_M^2} \ .$$

The *t*-statistic for testing whether the difference is zero or not is:

$$t = \frac{p_S - p_M}{se_{S-M}} .$$

In the example above $se_{S\text{-}M} = 0.8073$ and $t = 1.028$.

Analysis of ADS Form A Using SUDAAN

This section describes how to use SUDAAN for the analysis of the 1999 Form A ADS and details which options are appropriate to use.

SUDAAN (Software for the Statistical Analysis of Correlated Data) is a statistical package developed by Research Triangle Institute (RTI) to analyze data from complex sample surveys. Like WesVar, SUDAAN computes the standard errors of the estimates while taking the survey design into account. While SUDAAN can also use replication methods, it is most often used for first-order Taylor series approximation.

As mentioned above, all weighted cases are typically kept on the analysis file, even cases not in the subpopulation of interest, because all weighted cases should be used to estimate the variance structure. This applies in the general case of ineligibility but is most important for and analyses focused on a subgroup of the population. See below for the use of the design statement *SUBPOPN*.

Required Variables

The variables that provide information about the design in SUDAAN are

- **Variable TVSTR** (Taylor's series variance strata). The variable TVSTR indicates the variance strata to be used for software that computes estimates of variance using the Taylor series method. The variable TVSTR was created using the design strata. Strata with less than 25 records with positive final weights were collapsed with adjacent strata.

- **Variable ELIGFLGW** (final eligibility indicator). The variable ELIGFLGW indicates the final eligibility of the member. Eligible members have ELIGFLGW =1 while ineligibles have ELIGFLGW=2. Records with zero final weight have ELIGFLGW=3.

- **Variable PSW0** (final poststratified full sample weight). The variable PSW0 contains the final poststratified full sample weight. This weight is positive for all the records where ELIGFLGW = 1 or 2.

- **Variable POPTVSTR** (total population in variance strata). The variable POPTVSTR contains the total population for the variance strata (variable TVSTR). It is required to compute the finite population correction factor *(fpc)* for the estimates of variance.

- **Variable PSTSTR** (final poststratification cell). The variable PSTSTR indicates the final poststratification cell. The value of this variable is a sequential number from 1 to 35. In SUDAAN, the control totals are hardcoded in the program and correspond to totals for cells 1 to 35 in this order.

SUDAAN Keywords

The statements and keywords required to run SUDAAN are:

- **DESIGN=STRWOR** (required). The 1999 ADS Form A is a stratified simple random sample selected without replacement. In some strata the sampling fraction is so large that the *fpc* used in the variance estimation formula is not negligible.

- **NEST TVSTR/ MISSUNIT** (required). The keyword NEST lists the variable whose values identify the design stages. In this case, the sample was drawn within strata. The Option /MISSUNIT instructs SUDAAN to compute the variance contribution of stratum with only one PSU using the difference of that unit's value and the overall mean value of the population. Note the dataset must be sorted by the variable listed in the NEST statement. In the following examples, the datasets are already sorted by the TVSTR variable.

- **WEIGHT PSW0** (required). The keyword WEIGHT lists the weight to be used in the analysis. In this case, the weight is the final poststratified full sample weight PSW0.

- **TOTCNT POPTVSTR** (required if DESIGN=STRWOR). The keyword TOTCNT lists the variable containing the total population count of the strata. In this case, the variable POPTVSTR contains the population count for the variance stratum TVSTR.

- **SUBPOPN ELIGFLGW=1** (typically required). The keyword SUBPOPN lists the variables and conditions that define the population of interest. In the FORM A ADS, there are ineligible members with a final positive weight. To compute the correct *fpc*'s these members should be included in the file. Analyses, however, should be limited to eligible members (ELIGFLGW=1). Additional conditions can be included. For example if members in the Coast Guard (XMIMPS=5) are to be excluded, the statement should be SUBPOPN ELIGFLGW=1 & XMIMPS<5.

- **POSTVAR PSTSTR** (required but valid only in PROC DESCRIPT and PROC RATIO). The keyword POSTVAR lists the variable that indicates the cells for poststratification. SUDAAN performs an internal poststratification of the weight. If the data does not have any missing values, the point estimate obtained in SUDAAN will be the same as the one obtained in WesVar. If there are missing values, SUDAAN will compute a new weight different than the final weight given in the WEIGHT statement. This statement cannot be used in the PROC CROSSTAB. Also, when the statement POSTVAR is used, the design effect cannot be computed.

- **POSTWGT** 196520 137708 70732 22513 19543 5100 17671 5606 7454 147041 128695 41436 19987 9755 12962 4842 94292 37634 5576 10074 8601 5281 2632 131913 113946 41768 14873 24029 6018 19514 6575 9469 13292 6466 3905 (required if POSTVAR is used). This statement follows the statement POSTVAR and lists the control totals for the cells indicated by the variable PSTSTR;

Point Estimates Using SUDAAN

Listing J-4 shows an example of running SUDAAN's PROC CROSSTAB to compute totals and percentages for XMIMPS. The procedure CROSSTAB produces weighted frequencies and percentages distributions for univariate and multivariate (single variable or multiple variable) tabulations. The statements POSTVAR and POSTWGT cannot be used in the PROC CROSSTAB. As a result, the estimates do not reflect the reduction of variance due to the poststratification. The only reduction included is due to the use of the *fpc*. The following statements were used to produce the output in Listing J-4:

```
PROC CROSSTAB DATA=TEMP
FILETYPE=SAS  DESIGN=STRWOR DEFT2;
WEIGHT PSW0;           /*FS FINAL POSTRATIFIED WEIGHT */
NEST TVSTR /MISSUNIT;  /*TAYLOR STRATA */
TOTCNT POPTVSTR;       /*TOTAL POPULATION IN TAYLOR SERIES */
SUBPOPN ELIGFLGW=1;    /*ELIGIBLES ONLY */
SUBGROUP XMIMPS;
  LEVELS 5;
  TABLES XMIMPS;
PRINT NSUM WSUM SEWGT DEFFWGT TOTPER SETOT DEFFTOT /STYLE=NCHS ;
```

Listing J-5 shows an example of running SUDAAN's PROC DESCRIPT to compute totals and percentages for XMIMPS.[26] In this procedure, the statements POSTVAR and POSTWGT can be used and the estimates will reflect the reduction in variance due to poststratification. The standard errors estimated by DESCRIPT are smaller than the CROSSTAB estimates (Listing J-4) and are close to those estimated by WesVar (Listing J-1). If poststratification is ignored, PROC DESCRIPT's estimates of variance are identical to those from PROC CROSSTAB. The output in Listing J-5 was produced by the following statements:

```
PROC DESCRIPT DATA=temp
FILETYPE=SAS  DESIGN=STRWOR;
WEIGHT PSW0;           /*FS FINAL POSTRATIFIED WEIGHT */
NEST TVSTR /MISSUNIT;  /*TAYLOR STRATA */
TOTCNT POPTVSTR;       /*TOTAL POPULATION IN TAYLOR SERIES */
SUBPOPN ELIGFLGW=1;    /*ELIGIBLES ONLY */
POSTVAR PSTSTR;
POSTWGT
    196520   137708   70732   22513   19543     5100   17671    5606    7454
    147041   128695   41436   19987    9755    12962    4842   94292   37634
      5576    10074    8601    5281    2632   131913  113946   41768   14873
     24029     6018   19514    6575    9469    13292    6466    3905         ;
SUBGROUP XMIMPS PSTSTR _ONE_;
LEVELS 5  35 1;
VAR XMIMPS XMIMPS XMIMPS XMIMPS XMIMPS;
CATLEVEL 1 2 3 4 5 ;
TABLE _ONE_;
PRINT / STYLE = NCHS;
```

[26] The procedure DESCRIPT was designed to produce descriptive statistics for continuous variables, but it can also be used for discrete (categorical) variables through combinations of the statements CATLEVEL and VAR and the use of SUDAAN's variable _ONE_.

Listing J-4.
Sample PROC CROSSTAB Output of Marginal Totals, Percentages, and Standard Errors.

```
                              S U D A A N
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                                 Release 7.5.2


Number of observations read    :  36100    Weighted count :  1403423
Number of observations skipped :  29940
(WEIGHT variable nonpositive)
Observations in subpopulation  :  33189    Weighted count:  1303750
Denominator degrees of freedom :  35893


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Variance Estimation Method: Taylor Series (STRWOR)
For Subpopulation: ELIGFLGW = 1
by: Constructed Service Component.

-------------------------------------------------------------------------------------------
Constructed Service
  Component            Sample     Weighted     SE           DEFF       Tot        SE Tot
                       Size       Size         Weighted     Weighted   Percent    Percent
-------------------------------------------------------------------------------------------
Total                   33189   1303750.05      3495.47       3.36     100.00          .
Army                    12266    453265.42      1730.42       0.26      34.77       0.12
Navy                     6786    337116.44      1934.49       0.29      25.86       0.13
Marine Corps             4473    150758.61      1511.23       0.50      11.56       0.11
Air Force                7997    331420.86      1828.13       0.32      25.42       0.12
Coast Guard              1667     31188.72       326.17       0.19       2.39       0.03
-------------------------------------------------------------------------------------------


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Variance Estimation Method: Taylor Series (STRWOR)
For Subpopulation: ELIGFLGW = 1
by: Constructed Service Component.

------------------------------
Constructed Service    DEFF Tot
  Component            Percent
                       #2
------------------------------
Total                         .
Army                       0.22
Navy                       0.22
Marine Corps               0.43
Air Force                  0.24
Coast Guard                0.19
------------------------------
```

Listing J-5.
Sample PROC DESCRIPT Output of Marginal Totals, Percentages, and Standard Errors.

```
                              S U D A A N
           Software for the Statistical Analysis of Correlated Data
          Copyright      Research Triangle Institute      May  1998
                                 Release 7.5.2


Number of observations read    :  36100    Weighted count :  1403423
Number of observations skipped :  29940
(WEIGHT variable nonpositive)
Observations in subpopulation  :  33189    Weighted count:  1303750
Denominator degrees of freedom :  35893


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Variance Estimation Method: Taylor Series (STRWOR)
Post-stratified estimates
For Subpopulation: ELIGFLGW = 1
by: Variable, One.

--------------------------------------------------------------------------------------
Variable               Sample     Weighted
   One                 Size       Size                Total      Percent   SE Percent
--------------------------------------------------------------------------------------
Constructed Service
  Component: Army
   Total                33189   1303750.05      453265.42        34.77         0.09
   1                    33189   1303750.05      453265.42        34.77         0.09
Constructed Service
  Component: Navy
   Total                33189   1303750.05      337116.44        25.86         0.09
   1                    33189   1303750.05      337116.44        25.86         0.09
Constructed Service
  Component: Marine
  Corps
   Total                33189   1303750.05      150758.61        11.56         0.07
   1                    33189   1303750.05      150758.61        11.56         0.07
Constructed Service
  Component: Air
  Force
   Total                33189   1303750.05      331420.86        25.42         0.09
   1                    33189   1303750.05      331420.86        25.42         0.09
Constructed Service
  Component: Coast
  Guard
   Total                33189   1303750.05       31188.72         2.39         0.02
   1                    33189   1303750.05       31188.72         2.39         0.02
--------------------------------------------------------------------------------------
```

Comparing Two Subgroups Using SUDAAN

For comparing two subgroups within a survey (e.g., Army vs. Navy), contrasts can be performed in the DESCRIPT procedure. The following statements were used to produce the output in Listing J-6:

```
PROC DESCRIPT DATA=temp
FILETYPE=SAS  DESIGN=STRWOR;
WEIGHT PSW0;          /*FS FINAL POSTRATIFIED WEIGHT */
NEST TVSTR /MISSUNIT; /*TAYLOR STRATA */
TOTCNT POPTVSTR;      /*TOTAL POPULATION IN TAYLOR SERIES */
SUBPOPN ELIGFLGW=1;   /*ELIGIBLES ONLY */
POSTVAR PSTSTR;
POSTWGT
    196520   137708   70732   22513   19543
    5100   17671   5606   7454   147041
    128695   41436   19987   9755   12962
    4842   94292   37634   5576   10074
    8601   5281   2632   131913  113946
    41768   14873   24029   6018   19514
    6575   9469   13292   6466   3905
    ;
SUBGROUP M9910A XMIMPS PSTSTR _ONE_;
  LEVELS 2 5 35 1;
VAR M9910A ;
CATLEVEL 1 ;
/* The catlevel statement acts as a where statement restricting
   the analysis to the first level (in this case) */
CONTRAST XMIMPS = ( 1 -1 0 0 0) / name = "Army vs Navy";
TABLE _ONE_;
PRINT ;
```

As can be seen in comparing Listings J-2 and J-6, the estimate of the difference is the same at -15.48, although the *t*-test values, which depend on variances, differ slightly. For example, the WesVar using JKn replication estimates $t = -15.84$ while SUDAAN using linearization estimates $t = -17.39$. In this example the poststratification has little effect. When poststratification is ignored,[27] the *t* estimated by SUDAAN is –17.35.

[27] To ignore poststratification, drop the POSTVAR and POSTWGT statements and remove variable PSTSTR from the SUBGROUP statement.

Listing J-6
Sample PROC DESCRIPT Comparison of Two Subgroups

```
                          S U D A A N
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                              Release 7.5.2


Number of observations read    :  36100    Weighted count :  1403423
Number of observations skipped :  29940
(WEIGHT variable nonpositive)
Observations in subpopulation  :  33189    Weighted count:  1303750
Denominator degrees of freedom :  35893
```



```
Variance Estimation Method: Taylor Series (STRWOR)
Post-stratified estimates
For Subpopulation: ELIGFLGW = 1
by: Variable, One, Contrast.

for: Variable = Choose res - no choice: Not marked.
```

One		Contrast Army vs Navy
Total	Sample Size	19052
	Weighted Size	790381.86
	Cntrst Total	20571.84
	Cntrst Pct	-15.48
	SE Cntrst Pct	0.89
	T-Test	
	Cont.Pct=0	-17.39
	P-value T-Test	
	Cont.Pct=0	0.0000
1	Sample Size	19052
	Weighted Size	790381.86
	Cntrst Total	20571.84
	Cntrst Pct	-15.48
	SE Cntrst Pct	0.89
	T-Test	
	Cont.Pct=0	-17.39
	P-value T-Test	
	Cont.Pct=0	0.0000

Comparing Two Analysis Variables Using SUDAAN

To compare two questions within subgroups will require that you work with the data to compute the statistical test. SUDAAN does not have an option that will easily allow the user to compare two analysis variables. If the missing data patterns are the same for the two variables then the user can use SAS to create a new variable containing the differences between the two questions and, by using the new variable on the VAR statement of the SUDAAN PROC DESCRIPT, produce the *t*-statistic in SAS.

To illustrate this, we use the same questions shown in the WesVar example listing J-3, Question 13D, variable M9913D versus Question 13E, variable M9913E. In addition, we limit our analysis to the Army, Navy, and the Air Force subgroups. The SAS code to compute the differences between the two variables (those who say they had a serious problem selling or renting previous residence but not current residence less those who said current but not previous was the serious problem) consists of the following statements:

```
IF M9913D=1 THEN A=1; ELSE IF M9913D GT 0 THEN A=0;
IF M9913E=1 THEN B=1; ELSE IF M9913E GT 0 THEN B=0;
DIFF=A-B;

IF XMIMPS IN (1) THEN RXMIMPS =1;
ELSE IF XMIMPS IN (2) THEN RXMIMPS =2;
ELSE IF XMIMPS IN (4) THEN RXMIMPS =3;
**recodes Air Force to 3 because SUDAAN requires no breaks in codes;
```

To obtain the total and mean differences between the two variables of each subgroup and their standard errors, use the following statements:

```
PROC DESCRIPT DATA=TEMP
FILETYPE=SAS  DESIGN=STRWOR;
WEIGHT PSW0;          /*FS FINAL POSTRATIFIED WEIGHT */
NEST TVSTR /MISSUNIT;  /*TAYLOR STRATA */
TOTCNT POPTVSTR;       /*TOTAL POPULATION IN TAYLOR SERIES */
SUBPOPN ELIGFLGW=1;    /*ELIGIBLES ONLY*/
POSTVAR PSTSTR;
POSTWGT
    196520   137708   70732   22513   19543
    5100   17671   5606   7454   147041
    128695   41436   19987   9755   12962
    4842   94292   37634   5576   10074
    8601   5281   2632   131913  113946
    41768   14873   24029   6018   19514
    6575   9469   13292   6466   3905
    ;
SUBGROUP RXMIMPS PSTSTR ;
  LEVELS 3 35 ;
  TABLES RXMIMPS;
VAR DIFF;      /*COMPUTED DIFFERENCE-M9913E VS M9913E*/

PRINT TOTAL SETOTAL MEAN SEMEAN/
  MEANFMT=F10.7 SEMEANFMT=F10.7;

/*OUTPUT TOTAL AND MEAN DIFFERENCES BY SUBGROUPS*/
OUTPUT TOTAL SETOTAL MEAN SEMEAN/MEANFMT=F10.7 SEMEANFMT=F10.7
FILENAME = MEANS FILETYPE = SAS ;
```

The mean and standard error of the mean produced by SUDAAN are written to a SAS dataset to facilitate analysis. Next, to compute the *t*-value, i.e., the difference in the proportions:

```
MEAN2 = MEAN * 100;
SEMEAN2 = SEMEAN * 100;
LABEL MEAN2 = "% ESTIMATE";
LABEL SEMEAN2 = "% STDERROR";
TDIFF = MEAN2 / SEMEAN2;
LABEL TDIFF = "T VALUE";
PROC PRINT LABEL;
VAR RXMIMPS TOTAL SETOTAL MEAN2 SEMEAN2 TDIFF;
```

As shown in listing J- 7, the estimated total and percentage differences match output from the WesVar listing J-3. Standard error estimates and *t*-values are very close.

Listing J-7.
Sample PROC DESCRIPT Comparison of Two Analysis Variables

```
S U D A A N
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Number of observations read    :  36100    Weighted count :  1403423
Number of observations skipped :  29940
(WEIGHT variable nonpositive)
Observations in subpopulation  :  33189    Weighted count:  1303750
Denominator degrees of freedom :  35893



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Variance Estimation Method: Taylor Series (STRWOR)
Post-stratified estimates
For Subpopulation: ELIGFLGW = 1
by: Variable, SERVICE COMPONENT: ARMY, NAVY, AIR FORCE.

-------------------------------------------------------------------------------
|                 |                  |                                        |
| Variable        |                  | SERVICE COMPONENT: ARMY, NAVY, AIR FORCE
|                 |                  | TOTAL        | ARMY         | NAVY         |
-------------------------------------------------------------------------------
|                 |                  |              |              |              |
| DIFF            | Total            |     16831.67 |      7408.86 |      3336.35 |
|                 | SE Total         |      1385.40 |       777.27 |       811.76 |
|                 | Mean             |    0.0651149 |    0.0795854 |    0.0421171 |
|                 | SE Mean          |    0.0053601 |    0.0083220 |    0.0102779 |
-------------------------------------------------------------------------------
```

Variance Estimation Method: Taylor Series (STRWOR)
Post-stratified estimates
For Subpopulation: ELIGFLGW = 1
by: Variable, SERVICE COMPONENT: ARMY, NAVY, AIR FORCE.

Variable		SERVICE COMPONENT: ARMY, NAVY, AIR FORCE
		AIR FORCE
DIFF	Total	6086.46
	SE Total	810.02
	Mean	0.0706230
	SE Mean	0.0093721

The SAS System 3

OBS	RXMIMPS	ESTIMATE	STDERROR	% ESTIMATE	% STDERROR	T VALUE
1	TOTAL	16831.67	1385.40	6.51149	0.53601	12.1482
2	ARMY	7408.86	777.27	7.95854	0.83220	9.5633
3	NAVY	3336.35	811.76	4.21171	1.02779	4.0979
4	AIR FORCE	6086.46	810.02	7.06230	0.93721	7.5354

Comparing Estimates from Different Surveys Using SUDAAN

As in the earlier discussion for WesVar, to compare the proportions of persons in two surveys who report that in selling or renting their former residence was *a serious problem*, the proportions and standard errors for each of the surveys should be computed in SUDAAN separately. For *Form A*, there are two variables of interest, XMIMPM and M9913D. First, include in the SUBPOPN statement of the CROSSTAB procedure (with the design options described earlier in this appendix) XMIMPM =1 (as well as ELIGFLGW=1) to subset married members from non-married members. The listing will provide the percent estimates and standard errors for all married members. An alternative method is to create a SAS dataset containing the SUDANN output of percent estimates and standard errors, and then use M9913D=1 to limit further processing on respondents who report experiencing a serious problem in selling or renting their former residence (see Listing J-8.). In either case, the percent estimate for married active duty member who reported having serious problems selling or renting their former residence during their most recent PCS move is 15.71 and the standard error is 0.481. Denote the estimated percentage and standard error by p_M and se_M.

Similarly, compute the corresponding estimates from *Form B* using the variable S9910D (see Listing J-8); denote the estimated proportion and standard error by p_S and $se_{S,}$. The percent estimate for spouses who reported having serious problems selling or renting their former residence during their most recent PCS move is 16.54 and the standard error is 0.643.

To compare the proportions p_S and p_M, the following formula is used for computing the standard error of the difference:

$$se_{S-M} = \sqrt{se_S^2 + se_M^2} \quad .$$

and this formula to compute the *t*-statistic for testing the difference:

$$t = \frac{p_S - p_M}{se_{S-M}} \quad .$$

In the example above $se_{S\text{-}M}$ =0.8029 and t = 1.041. Again, the *t*-value is slightly higher using SUDAAN.

The SAS code to compute the differences between two variables in two surveys consists of the following statements:

```
/*******************************
* Member Data - SUDAAN Crosstab *
*******************************/

PROC CROSSTAB DATA=TEMP
FILETYPE=SAS  DESIGN=STRWOR DEFT2;
WEIGHT PSW0;           /*FS FINAL POSTRATIFIED WEIGHT */
NEST TVSTR /MISSUNIT;  /*TAYLOR STRATA */
TOTCNT POPTVSTR;       /*TOTAL POPULATION IN TAYLOR SERIES */
SUBPOPN ELIGFLGW=1;    /*ELIGIBLE & MARRIED MEMBERS ONLY */
SUBGROUP M9913D ;
  LEVELS 4;
  TABLES M9913D ;

PRINT TOTPER SETOT /TOTPERFMT=F15.9 SETOTFMT=F15.9;
TITLE 'Comparing Two Surveys Example - Member';

/* Outputs SUDAAN Table to a SAS Dataset */
output TOTPER SETOT /TOTPERFMT=F15.9 SETOTFMT=F15.9
filename = MDATA filetype = sas ;
proc print data=mdata;

/*******************************
* Spouse Data - SUDAAN Crosstab *
*******************************/

proc crosstab data=temp
FILETYPE=SAS  DESIGN=STRWOR DEFT2;
WEIGHT PSW0;           /*FS FINAL POSTRATIFIED WEIGHT */
NEST TVSTR /MISSUNIT;  /*TAYLOR STRATA */
TOTCNT POPTVSTR;       /*TOTAL POPULATION IN TAYLOR SERIES */
SUBPOPN ELIGFLGW=1;    /*ELIGIBLES ONLY */
SUBGROUP S9910D ;
  LEVELS 4;
  TABLES S9910D ;

PRINT TOTPER SETOT /TOTPERFMT=F15.9 SETOTFMT=F15.9;
TITLE 'Comparing Two Surveys Example - Spouse';

/* Outputs SUDAAN Table to a SAS Dataset */
output TOTPER SETOT /TOTPERFMT=F15.9 SETOTFMT=F15.9
filename = SDATA filetype = sas ;

/*********************************************************************
 * Restricts datasets to those with serious problems selling/renting  *
 *********************************************************************/

data out.mdata2;
set mdata;
if m9913d ne 1 then delete;

data out.sdata2;
set sdata;
if s9910d ne 1 then delete;

/*************************************************************
* Merge Spouse and Member Datasets to enable comparisons in SAS *
*************************************************************/

data temp; /* Spouse Data */
set out.sdata2 (keep = TOTPER  SETOT);

data temp2; /* Member Data */
set data.mdata2 (keep = TOTPER  SETOT);
```

```
rename TOTPER = mtotper SETOT = msetot ;

data out.outdata; /* Create Merged Dataset */
merge temp temp2;
run;

data temp3;
set out.outdata;

/************************************
* The Standard Error of the Difference *
************************************/

sesm1 = (SETOT*SETOT) + (MSETOT*MSETOT);
sesm = sqrt (sesm1);

/*****************************************************************
* The T-statistic for testing the Standard Error of the Difference *
*****************************************************************/

t = (totper - mtotper)/sesm;

proc print;
var sesm t setot totper msetot mtotper;
TITLE 'Members and Spouses Reporting Serious Problems Selling/Renting';
```

Listing J-8.
Sample PROC CROSSTAB Comparison of Estimates from Difference Surveys

```
                  Comparing Two Surveys Example - Member                          1

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                                    Release 7.5.2

Number of observations read    :  36100    Weighted count :  1403423
Number of observations skipped :  29940
(WEIGHT variable nonpositive)
Observations in subpopulation  :  22551    Weighted count:   812662
Denominator degrees of freedom :  35893


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Variance Estimation Method: Taylor Series (STRWOR)
For Subpopulation: ELIGFLGW = 1 & XMIMPM = 1
by: Rec PCS prob, sell/rent former residence.

-------------------------------------------------------------------------------------------
|                 |                 |
|                 |                 | Rec PCS prob, sell/rent former residence
|                 |                 | Total           | Serious problem | Somewhat        |
|                 |                 |                 |                 | problem         |
-------------------------------------------------------------------------------------------
|                 |                 |                 |                 |                 |
|                 | Tot Percent     |   100.000000000 |    15.706056751 |    13.236355819 |
|                 | SE Tot Percent  |      .          |     0.481464961 |     0.458148490 |
-------------------------------------------------------------------------------------------



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Variance Estimation Method: Taylor Series (STRWOR)
For Subpopulation: ELIGFLGW = 1 & XMIMPM = 1
by: Rec PCS prob, sell/rent former residence.

-----------------------------------------------------------------------
|                 |                 |
|                 |                 | Rec PCS prob, sell/rent former residence
|                 |                 | Slight problem  | Not a problem   |
-----------------------------------------------------------------------
|                 |                 |                 |                 |
|                 | Tot Percent     |    12.349864161 |    58.707723269 |
|                 | SE Tot Percent  |     0.453749114 |     0.690467481 |
-----------------------------------------------------------------------
```

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Number of observations read : 17963 Weighted count : 755980
Number of observations skipped : 20938
(WEIGHT variable nonpositive)
Observations in subpopulation : 16103 Weighted count: 672755
Denominator degrees of freedom : 17885

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The CROSSTAB Procedure Table : 1

Variance Estimation Method: Taylor Series (STRWOR)
For Subpopulation: ELIGFLGW = 1
by: Recent PCS prob, sell/rent former res.

		Recent PCS prob, sell/rent former res		
		Total	Serious problem	Somewhat problem
Tot Percent		100.000000000	16.542081383	13.179826930
SE Tot Percent		0.000000000	0.642539534	0.554462253

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The CROSSTAB Procedure Table : 1

Variance Estimation Method: Taylor Series (STRWOR)
For Subpopulation: ELIGFLGW = 1
by: Recent PCS prob, sell/rent former res.

		Recent PCS prob, sell/rent former res	
		Slight problem	Not a problem
Tot Percent		11.451875253	58.826216435
SE Tot Percent		0.511428564	0.804494385

Analysis of ADS Form A Using SAS

This appendix describes how to use Version 8.0 and later of SAS for the analysis of the 1999 Form A ADS.[28] As mentioned above, because all weighted cases should be used to estimate the variance, all weighted cases should be kept on the analysis file, even cases not in the subpopulation of interest. This applies both in the general case of ineligibility and specific cases of analyses focused on a part of the population. See below for the use of the *DOMAIN* statement.

Required Variables

The variables that provide information about the design in SAS are

- **Variable TVSTR** (Taylor's series variance strata). As for SUDAAN, the variable TVSTR indicates the variance strata to be used for computation of variance using the Taylor series method.

- **Variable ELIGFLGW** (final eligibility indicator). The variable ELIGFLGW indicates the final eligibility of the member. Eligible members have ELIGFLGW =1 while ineligibles have ELIGFLGW=2. Records with zero final weight have ELIGFLGW=3.

- **Variable PSW0** (final poststratified full sample weight). The variable PSW0 contains the final poststratified full sample weight. This weight is positive for all the records where ELIGFLGW = 1 or 2.

- **Variable _TOTAL_**. SAS requires that the specific variable name _TOTAL_ be used for the variable that was saved on the dataset as POPTVSTR. This variable contains the population counts for the variance strata (variable TVSTR). It is required to compute the *fpc* for the estimates of variance.

  The following statements[29] are available in PROC SURVEYMEANS:

```
PROC SURVEYMEANS < options > < statistic-keywords > ;
CLASS variables ;
DOMAIN variables < variable*variable variable*variable*variable ... > ;
STRATA variables < / option > ;
VAR variables ;
WEIGHT variable ;
```

[28] Examples given in this report were produced using SAS Version 8.01 TS Level 01M0 with an additional fix replacing SASQSMEA.DLL with an updated file. Without this fix, SAS variance estimates may not match those in this report and, in fact, could be negative.

[29] A CLUSTER statement can also be used to specify cluster identification variables in a clustered sample design. A BY statement can be used with PROC SURVEYMEANS to obtain separate analyses for groups defined by the BY variables. Note that using a BY statement provides completely separate analyses of the BY groups unlike the variance estimates when using a DOMAIN statement that takes into account the full variance structure. When a BY statement appears, the procedure expects the input data sets to be sorted in order of the BY variables. The variables are one or more variables in the input data set. If you specify more than one BY statement, the procedure uses only the latest BY statement and ignores any previous ones.

The PROC SURVEYMEANS statement invokes the procedure. It optionally names the input data sets and specifies statistics for the procedure to compute. The PROC SURVEYMEANS statement is required.

The VAR statement identifies the variables to be analyzed. The CLASS statement identifies those numeric variables that are to be analyzed as categorical variables. The STRATA statement lists the variables that form the strata in a stratified sample design. The DOMAIN statement lists the variables that define domains for subpopulation analysis. The WEIGHT statement names the sampling weight variable. All statements can appear multiple times except the PROC SURVEYMEANS statement and the WEIGHT statement, which can appear only once.

In order to take into account finite population corrections, a dataset has to be named that includes the variable _TOTAL_. This can either be the same dataset as the one containing the variables to be analyzed, or a condensed dataset can be created to speed processing. The following statements can be used to create a working dataset (main) and a condensed dataset (tots4fpc) with the stratum population counts. Note that in creating this condensed dataset, the class statement has to contain the stratification variable (i.e., TVSTR) and any variables used in a WHERE statement (e.g., ELIGFLGW).[30]

```
data main ; set libname.Ads99pub
       (KEEP = ELIGFLGW TVSTR POPTVSTR XMIMPS PSW0 M9910A ); *Limited variables kept to speed
       processing ;
IF ELIGFLGW IN (1 2) ; *Keeps all weighted records ;
_TOTAL_ = POPTVSTR ; * Creates the variable with the SAS required name ;

proc means data = main noprint;
   var _TOTAL_;
   output out=tots4fpc max=;
   class TVSTR ;
run;
```

[30] It also has to contain any variables to appear in a BY statement to be used in PROC SURVEYMEANS.

Point Estimates Using SAS

The following statements can be used to compute the proportions of the Services using the variable XMIMPS.

```
PROC SURVEYMEANS DATA = main TOTAL = tots4fpc MEAN STDERR;
STRATA TVSTR;
VAR XMIMPS;
CLASS XMIMPS;
DOMAIN ELIGFLGW;
WEIGHT PSW0 ;
```

The output is shown in Listing J-9. SURVEYMEANS produces proportions and standard errors of proportions, both of which can be converted to percentages by multiplying by 100. The percentages for eligibles match those produced by WesVar (Listing J-1) and SUDAAN (Listings J-5 and J-6). The standard errors of percentages are similar to those produced by SUDAAN PROC CROSSTAB (Listing J-5), which is also a Taylor series estimate that does not take advantage of the variance reduction from taking into account poststratification. Because SAS does not take this into account, it will give higher, more conservative, estimates than those that can be obtained from SUDAAN procedures that do take poststratification into account.

As mentioned above, the dataset could be subset to just those who are eligible in a data step or by using a WHERE statement. The following statements can be used to compute the proportions of the Services using the variable XMIMPS.[31]

```
PROC SURVEYMEANS DATA = main TOTAL = tots4fpc MEAN STDERR;
STRATA TVSTR;
VAR XMIMPS;
CLASS XMIMPS;
WHERE ELIGFLGW=1;
WEIGHT PSW0 ;
```

The output is shown in Listing J-10. The percentages match those produced by the other procedures, but the variances are smaller than those estimated by SAS when the DOMAIN statement is used so that all weighted cases are used to estimate the variance structure. This method of using the WHERE statement is not optimum because it does not take into account the complete probability structure—it is not equivalent to using the SUBPOPN statement in SUDAAN.

[31] ELIGFLGW would have to have appeared on the CLASS statement of the PROC MEAN that produced the tots4fpc file.

Listing J-9.
Sample PROC SURVEYMEANS of Marginal Proportions and Standard Errors Using DOMAIN Statement.

```
The SAS System                                                                                  1

The SURVEYMEANS Procedure

            Data Summary

Number of Strata                 207
Number of Observations         36100
Sum of Weights               1403423


                                    Class Level Information

Class
Variable  Label                            Levels  Values

XMIMPS    Constructed Service Component         5  Army Navy Marine Corps Air Force Coast Guard


                                    Statistics

                                                                          Std Error
Variable              Label                                    Mean         of Mean
-------------------------------------------------------------------------------------
XMIMPS=Army           Constructed Service Component        0.344045        0.000655
XMIMPS=Navy                                                0.259790        0.000712
XMIMPS=Marine Corps                                        0.117025        0.000635
XMIMPS=Air Force                                           0.255473        0.000727
XMIMPS=Coast Guard                                         0.023666        0.000177
-------------------------------------------------------------------------------------


                                   Domain Analysis: ELIGFLGW

ELIGFLGW                       Variable             Label                                  Mean
-------------------------------------------------------------------------------------------------
Eligible respondents           XMIMPS=Army          Constructed Service Component       0.347663
                               XMIMPS=Navy                                              0.258574
                               XMIMPS=Marine Corps                                      0.115635
                               XMIMPS=Air Force                                         0.254206
                               XMIMPS=Coast Guard                                       0.023922
Known ineligible respondents   XMIMPS=Army          Constructed Service Component       0.296726
                               XMIMPS=Navy                                              0.275696
                               XMIMPS=Marine Corps                                      0.135214
                               XMIMPS=Air Force                                         0.272054
                               XMIMPS=Coast Guard                                       0.020310
-------------------------------------------------------------------------------------------------
```

The SURVEYMEANS Procedure

Domain Analysis: ELIGFLGW

ELIGFLGW	Variable	Std Error of Mean
Eligible respondents	XMIMPS=Army	0.001199
	XMIMPS=Navy	0.001254
	XMIMPS=Marine Corps	0.001063
	XMIMPS=Air Force	0.001203
	XMIMPS=Coast Guard	0.000254
Known ineligible respondents	XMIMPS=Army	0.012104
	XMIMPS=Navy	0.011897
	XMIMPS=Marine Corps	0.009278
	XMIMPS=Air Force	0.011443
	XMIMPS=Coast Guard	0.002129

Listing J-10.
Sample PROC SURVEYMEANS of Marginal Proportions and Standard Errors.

```
The SAS System                                                                                  1

The SURVEYMEANS Procedure

            Data Summary

Number of Strata                 207
Number of Observations         33189
Sum of Weights            1303750.05


                                      Class Level Information

Class
Variable    Label                              Levels    Values

XMIMPS      Constructed Service Component       5    Army Navy Marine Corps Air Force Coast Guard


                                    Statistics

                                                                                  Std Error
Variable              Label                                      Mean             of Mean
-------------------------------------------------------------------------------------
XMIMPS=Army           Constructed Service Component          0.347663           0.000582
XMIMPS=Navy                                                  0.258574           0.000535
XMIMPS=Marine Corps                                          0.115635           0.000416
XMIMPS=Air Force                                             0.254206           0.000680
XMIMPS=Coast Guard                                           0.023922           0.000176
-------------------------------------------------------------------------------------
```

Comparing Two Subgroups Using SAS

For comparing two subgroups within a survey (e.g., Army vs. Navy), SAS can be used to estimate the difference and variance components but the t-test has to be manually calculated since there is no way to request a contrast. The following statements were used to produce the output in Listing J-11.

```
PROC SURVEYMEANS DATA = main TOTAL= tots4fpc MEAN STDERR;
STRATA TVSTR;
DOMAIN XMIMPS*ELIGFLGW;
VAR M9910A ;
CLASS M9910A;
WEIGHT PSW0 ;
```

The difference between the Army and the Navy is –15.48. To compare the proportions p_{Army} and p_{Navy}, the following formula is used for computing the standard error of the difference:

$$se_{Army-Navy} = \sqrt{se_{Army}^2 + se_{Navy}^2}$$

and this formula to compute the *t*-statistic for testing the difference:

$$t = \frac{p_{Army} - p_{Navy}}{se_{Army-Navy}}.$$

In the example above $se_{Army\text{-}Navy} = 0.8873$ and $t = -17.45$ which is very close to the SUDAAN estimate of –17.35. Again, the *t*-value using linearization is slightly higher using replication methods (WesVar).

Listing J-11.
Sample PROC SURVEYMEANS of Marginal Proportions and Standard Errors.

```
The SAS System                                                                    1

The SURVEYMEANS Procedure

            Data Summary

Number of Strata                 207
Number of Observations         36100
Sum of Weights               1403423


                       Class Level Information

Class
Variable    Label                       Levels    Values

M9910A      Choose res - no choice           2    Not marked Marked


                                Statistics

                                                                  Std Error
Variable             Label                             Mean         of Mean
-------------------------------------------------------------------------
M9910A=Not marked    Choose res - no choice        0.706891        0.003101
M9910A=Marked                                      0.293109        0.003101
-------------------------------------------------------------------------


                            Domain Analysis: ELIGFLGW*XMIMPS

ELIGFLGW                        XMIMPS          Variable             Label
-------------------------------------------------------------------------------------
Eligible respondents            Army            M9910A=Not marked    Choose res - no choice
                                                M9910A=Marked
                                Navy            M9910A=Not marked    Choose res - no choice
                                                M9910A=Marked
                                Marine Corps    M9910A=Not marked    Choose res - no choice
                                                M9910A=Marked
                                Air Force       M9910A=Not marked    Choose res - no choice
                                                M9910A=Marked
                                Coast Guard     M9910A=Not marked    Choose res - no choice
                                                M9910A=Marked
Known ineligible respondents    Army            M9910A=Not marked    Choose res - no choice
                                                M9910A=Marked
                                Navy            M9910A=Not marked    Choose res - no choice
                                                M9910A=Marked
                                Marine Corps    M9910A=Not marked    Choose res - no choice
                                                M9910A=Marked
-------------------------------------------------------------------------------------
```

The SURVEYMEANS Procedure

Domain Analysis: ELIGFLGW*XMIMPS

ELIGFLGW	XMIMPS	Variable	Label
Known ineligible respondents	Air Force	M9910A=Not marked	Choose res - no choice
		M9910A=Marked	
	Coast Guard	M9910A=Not marked	Choose res - no choice
		M9910A=Marked	

Domain Analysis: ELIGFLGW*XMIMPS

ELIGFLGW	XMIMPS	Variable	Mean	Std Error of Mean
Eligible respondents	Army	M9910A=Not marked	0.626480	0.005808
		M9910A=Marked	0.373520	0.005808
	Navy	M9910A=Not marked	0.781303	0.006708
		M9910A=Marked	0.218697	0.006708
	Marine Corps	M9910A=Not marked	0.525486	0.009315
		M9910A=Marked	0.474514	0.009315
	Air Force	M9910A=Not marked	0.807960	0.005822
		M9910A=Marked	0.192040	0.005822
	Coast Guard	M9910A=Not marked	0.749103	0.012841
		M9910A=Marked	0.250897	0.012841
Known ineligible respondents	Army	M9910A=Not marked	0.682963	0.028003
		M9910A=Marked	0.317037	0.028003
	Navy	M9910A=Not marked	0.788008	0.028322
		M9910A=Marked	0.211992	0.028322
	Marine Corps	M9910A=Not marked	0.572590	0.049175
		M9910A=Marked	0.427410	0.049175
	Air Force	M9910A=Not marked	0.877530	0.020833
		M9910A=Marked	0.122470	0.020833
	Coast Guard	M9910A=Not marked	0.763877	0.053779
		M9910A=Marked	0.236123	0.053779

Comparing Two Analysis Variables Using SAS

To compare two questions overall or within subgroups will require that you work with the data to compute the statistical test. If the missing data patterns are the same for the two variables then the user can use SAS to create a new variable containing the differences between the two questions and produce the *t*-statistic in SAS.

To illustrate this, we use the same questions shown in the WesVar example Listing J-3 and SUDAAN example Listing J-7, Question 13D, variable M9913D versus Question 13E, variable M9913E. We do not limit our analysis to the Army, Navy, and the Air Force subgroups as was done for WesVar and SUDAAN because SAS needs all the weighted cases for variance computation but does not have a SUBPOPN statement like SUDAAN. The SAS code to compute the differences between the two variables (those who say they had a serious problem selling or renting current residence but not former residence less those who said former but not current residence was the problem) consists of the following statements:

```
IF M9913D=1 THEN A=1; ELSE IF M9913D GT 0 THEN A=0;
IF M9913E=1 THEN B=1; ELSE IF M9913E GT 0 THEN B=0;
DIFF=A-B;

PROC SURVEYMEANS DATA = main TOTAL = tots4fpc  MEAN STDERR DF T;
STRATA tvstr;
DOMAIN XMIMPS*ELIGFLGW ;
VAR DIFF ;
WEIGHT PSW0 ;
RUN;
```

The output is shown in Listing J-12. The percentages match those produced by the other procedures (Listings J-3 and J-7), with the variances very close to those produced by SUDAAN and WesVar.

Listing J-12.
Sample PROC SURVEYMEANS Comparison of Two Analysis Variables

The SURVEYMEANS Procedure

Data Summary

Number of Strata	207
Number of Observations	36100
Sum of Weights	1403423

Statistics

Variable	DF	Mean	Std Error of Mean	t Value	Pr > |t|
DIFF	11113	0.060907	0.004632	13.15	<.0001

Domain Analysis: ELIGFLGW*XMIMPS

ELIGFLGW	XMIMPS	Variable	DF	Mean	Std Error of Mean	t Value
Eligible respondents	Army	DIFF	4143	0.079585	0.008280	9.61
	Navy	DIFF	2459	0.042117	0.010198	4.13
	Marine Corps	DIFF	1651	0.023361	0.012821	1.82
	Air Force	DIFF	4145	0.070623	0.009382	7.53
	Coast Guard	DIFF	827	0.049706	0.021875	2.27
Known ineligible respondents	Army	DIFF	3968	0.091291	0.027200	3.36
	Navy	DIFF	2371	0.044951	0.024234	1.85
	Marine Corps	DIFF	1240	0.043652	0.059930	0.73

Domain Analysis: ELIGFLGW*XMIMPS

ELIGFLGW	XMIMPS	Variable	Pr > |t|
Eligible respondents	Army	DIFF	<.0001
	Navy	DIFF	<.0001
	Marine Corps	DIFF	0.0686
	Air Force	DIFF	<.0001
	Coast Guard	DIFF	0.0233
Known ineligible respondents	Army	DIFF	0.0008
	Navy	DIFF	0.0637
	Marine Corps	DIFF	0.4665

The SURVEYMEANS Procedure

Domain Analysis: ELIGFLGW*XMIMPS

ELIGFLGW	XMIMPS	Variable	DF	Mean	Std Error of Mean	t Value
Known ineligible respondents	Air Force	DIFF	3152	0.042398	0.022194	1.91
	Coast Guard	DIFF	515	0.052003	0.092518	0.56

Domain Analysis: ELIGFLGW*XMIMPS

ELIGFLGW	XMIMPS	Variable	Pr > |t|
Known ineligible respondents	Air Force	DIFF	0.0562
	Coast Guard	DIFF	0.5743

Comparing Estimates from Different Surveys Using SAS

As in the earlier discussion for SUDAAN, to compare the proportions of persons in two surveys who report that in selling or renting their former residence was *a serious problem*, the proportions and standard errors for each of the surveys should be computed in SURVEYMEANS separately. For *Form A*, there are two variables of interest, XMIMPM and M9913D. The SAS code to get the percentage and standard error for members consists of the following:

```
PROC SURVEYMEANS DATA = main TOTAL = tots4fpc  MEAN STDERR;
STRATA tvstr;
DOMAIN XMIMPM*ELIGFLGW ;
VAR M9913D ;
CLASS M9913D;
WEIGHT PSW0 ;
RUN;
```

The output is shown in Listing J-13. The output lists the proportion estimates and standard errors for all married active-duty members. The percent estimate for married active-duty member who reported having serious problems selling or renting their former residence during their most recent PCS move is 15.71 (as in WesVar and SUDAAN) and the standard error is 0.479, slightly lower than estimated by WesVar or SUDAAN. Denote the estimated percentage and standard error by p_M and se_M.

The spouse variable S9910D has been recoded to four levels to match M9913D. The SAS code to get the percentage and standard error for spouses consists of the following:

```
PROC SURVEYMEANS DATA=main TOTAL=tots4fpc MEAN STDERR;
STRATA tvstr;
VAR S9910D;
CLASS S9910D;
DOMAIN ELIGFLGW;
WEIGHT PSW0 ;
```

The output is shown in Listing J-14. The percent estimate for spouses of active-duty members who reported having serious problems selling or renting their former residence during their most recent PCS move is 16.54 (as in WesVar and SUDAAN) and the standard error is 0.642. Denote the estimated percentage and standard error for spouses by p_S and se_S.

To compare the proportions p_S and p_M, the following formula is used for computing the standard error of the difference:

$$se_{S-M} = \sqrt{se_S^2 + se_M^2} \ .$$

The *t*-statistic for testing whether the difference is zero or not is:

$$t = \frac{p_S - p_M}{se_{S-M}} \ .$$

In the example above $se_{S\text{-}M} = 0.8009$ and $t = 1.044$, very close to the *t*-tests calculated from WesVar at 1.028 and from SUDAAN at 1.041.

Listing J-13.
Sample PROC SURVEYMEANS Estimates from Married Members (Form A)

```
The SAS System                                                                                    1

The SURVEYMEANS Procedure

            Data Summary

Number of Strata                 207
Number of Observations         36100
Sum of Weights               1403423


                    Class Level Information

Class
Variable    Label                                          Levels

M9913D      Rec PCS prob, sell/rent former residence           4

                          Class Level Information

Class
Variable    Values

M9913D      Serious problem Somewhat problem Slight problem Not a problem


                                          Statistics

                                                                                        Std Error
Variable                  Label                                              Mean        of Mean
-------------------------------------------------------------------------------------------------
M9913D=Serious problem                                                    0.138764       0.003762
M9913D=Somewhat problem                                                   0.118860       0.003703
M9913D=Slight problem     Rec PCS prob, sell/rent former residence        0.115373       0.003819
M9913D=Not a problem                                                      0.627003       0.005608
-------------------------------------------------------------------------------------------------


                     Domain Analysis: ELIGFLGW*XMIMPM

ELIGFLGW                        XMIMPM             Variable
-------------------------------------------------------------------------
Eligible respondents            Married            M9913D=Serious problem
                                                   M9913D=Somewhat problem
                                                   M9913D=Slight problem
                                                   M9913D=Not a problem
                                Not married        M9913D=Serious problem
                                                   M9913D=Somewhat problem
                                                   M9913D=Slight problem
-------------------------------------------------------------------------
```

The SURVEYMEANS Procedure

Domain Analysis: ELIGFLGW*XMIMPM

ELIGFLGW	XMIMPM	Variable
Eligible respondents	Not married	M9913D=Not a problem
Known ineligible respondents	Married	M9913D=Serious problem
		M9913D=Somewhat problem
		M9913D=Slight problem
		M9913D=Not a problem
	Not married	M9913D=Serious problem
		M9913D=Somewhat problem
		M9913D=Slight problem
		M9913D=Not a problem

Domain Analysis: ELIGFLGW*XMIMPM

ELIGFLGW	XMIMPM	Label
Eligible respondents	Married	
		Rec PCS prob, sell/rent former residence
	Not married	
		Rec PCS prob, sell/rent former residence
Known ineligible respondents	Married	
		Rec PCS prob, sell/rent former residence
	Not married	
		Rec PCS prob, sell/rent former residence

Domain Analysis: ELIGFLGW*XMIMPM

ELIGFLGW	XMIMPM	Mean	Std Error of Mean
Eligible respondents	Married	0.157061	0.004787
		0.132364	0.004581
		0.123499	0.004544

The SURVEYMEANS Procedure

Domain Analysis: ELIGFLGW*XMIMPM

ELIGFLGW	XMIMPM	Mean	Std Error of Mean
Eligible respondents	Married	0.587077	0.006829
	Not married	0.080763	0.006102
		0.067247	0.006222
		0.087425	0.008131
		0.764565	0.011198
Known ineligible respondents	Married	0.137290	0.016657
		0.149571	0.017688
		0.127594	0.016880
		0.585545	0.025965
	Not married	0.097022	0.022904
		0.109645	0.035804
		0.086643	0.023692
		0.706689	0.045267

Listing J-14.
Sample PROC SURVEYMEANS Estimates from Spouses of Members (Form B)

```
The SAS System                                                                                    1

The SURVEYMEANS Procedure

            Data Summary

Number of Strata                  78
Number of Observations         17963
Sum of Weights                755980


                   Class Level Information

Class
Variable    Label                                        Levels

S9910D      Recent PCS prob, sell/rent former res           4

                          Class Level Information

Class
Variable    Values

S9910D      Serious problem Somewhat problem Slight problem Not a problem


                                          Statistics

                                                                                      Std Error
Variable                   Label                                            Mean         of Mean
-----------------------------------------------------------------------------------------------
S9910D=Serious problem                                                  0.168524        0.006367
S9910D=Somewhat problem    Recent PCS prob, sell/rent former res        0.129587        0.005246
S9910D=Slight problem                                                   0.110829        0.004803
S9910D=Not a problem                                                    0.591060        0.007715
-----------------------------------------------------------------------------------------------


                                 Domain Analysis: ELIGFLGW

Eligible
    flag    Variable                   Label                                            Mean
-----------------------------------------------------------------------------------------
       1    S9910D=Serious problem                                                  0.165421
            S9910D=Somewhat problem    Recent PCS prob, sell/rent former res        0.131798
            S9910D=Slight problem                                                   0.114519
            S9910D=Not a problem                                                    0.588262
       2    S9910D=Serious problem                                                  0.198610
            S9910D=Somewhat problem    Recent PCS prob, sell/rent former res        0.108149
-----------------------------------------------------------------------------------------
```

The SURVEYMEANS Procedure

Domain Analysis: ELIGFLGW

Eligible flag	Variable	Label	Mean
2	S9910D=Slight problem		0.075064
	S9910D=Not a problem		0.618177

Domain Analysis: ELIGFLGW

Eligible flag	Variable	Std Error of Mean
1	S9910D=Serious problem	0.006421
	S9910D=Somewhat problem	0.005556
	S9910D=Slight problem	0.005120
	S9910D=Not a problem	0.008047
2	S9910D=Serious problem	0.026900
	S9910D=Somewhat problem	0.015087
	S9910D=Slight problem	0.012954
	S9910D=Not a problem	0.027864

REPORT DOCUMENTATION PAGE

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14. ABSTRACT
The 1999 Active Duty Surveys (ADS) gather information on military assignments, retention issues, personal and military background, preparedness, mobilizations and deployments, family composition, use of military programs and services, housing, perceptions of military life, family and child care concerns, spouse employment, financial information, and other quality of life issues. Information derived from the survey will be used to assess military personnel issues for Service members and their families. This report documents the procedures used to develop the instrument, design the sample, conduct the survey, process the data and prepare analysis weights. In addition, appendices address issues in the analysis of the survey data.

15. SUBJECT TERMS
dataset, survey results, codebook, military families, personnel, family programs, career intentions, retention

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